SERVICE MANUAL

AE-2 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-B2511A	RM-830	Italian	SCC-F18F-A	KV-B2513E	RM-830	Spanish	SCC-F33F-A
KV-B2511B	RM-830	French	SCC-F32M-A	KV-B2511K	RM-830	OIRT	SCC-F72A-A
KV-B2511D	RM-830	AEP	SCC-F26F-A	KV-B2512U	RM-830	UK	SCC-F25D-A





TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television system	Stereo system	Channnel coverage	Color system
Italian		B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF:21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
French		B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69 I UHF:B21-B69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
AEP		B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
Spanish		B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
OIRT		B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R1-R12 UHF:R21-R60	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
UK		ı	NICAM Stereo	UHF:B21-B69	PAL SECAM, NTSC 4.43 NTSC 3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power consumption	104 Wh	101 Wh	101 Wh	102.5 Wh	100 Wh	151 Wh

Picture tube

Hi-Black Trinitron

Approx. 63 cm

(Approx. 59 cm picture measured

diagonally) $110~^{\circ}$ -deflection

[REAR]

1 21-pin Euro connector (CENELEC standard)

Inputs for audio and video signals

- inputs for RGB
- outputs of TV video and audio signals
- 2/- 2 21-pin Euro connector
- inputs for audio and video signals
- in puts for S video
- outputs for audio and video signals

(selectable)

• Audio inputs (variable) -phono jacks

[FRONT]

- → 3 Video input-phono jack
- → Audio input-phono jacks
- 3 S video input 4-pin DIN
- Ω Headphone jack : Stereo minijack

Sound output

2×15 (RMS)

2×30 (Music)

Power regirement

220-240 V

Dimensions

Approx.663 x 506 x 507 mm

Weight

Approx.35.5 kg

Supplied accessories

RM-830 Remote Commander (1)

IEC designation R 6 batteries (2)

[RM-830]

Remote control system

infrared control

Power requirements

3 V dc

2 batteries IEC designation

R 6 (size AA)

Approx.65 \times 225 \times 21 mm (w/h/d) Approx.157g (Not including Batteries)

Dimentions Weight

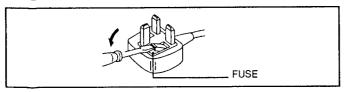
Model name	KV-B2511A	KV-B 2511 B	KV-B 2511 D	KV-B 2513 E	KV-B2511K	KV-B 2512 U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PiP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	OFF	OFF	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	English	English

Warning (UK Model only)

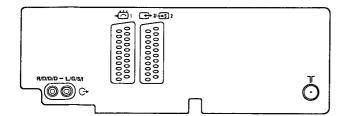
The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use 5 AMP FUSE approved by ASTA to BS 1362, ie.

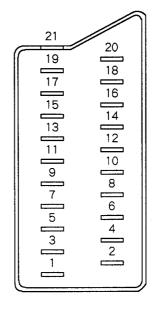
replaced, use 5 AMP PUSE apploved by ASTA to BS 1502, 16.
carries the 🏵 mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT
SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE
DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS
IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



21 pin connector (△1 →2/→4)





Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	0	0	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms *
7	0	•	Blue input	0.7 ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (blanking)	
	0	-	Red input	0.7V ± 3dB, 75ohms, positive
15	_	0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) input impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	0	-	Video input	1V ± 3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
20	_	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
21	0	0	Common ground (plug	, shield)

○ Connected • unconnected (open)

* at 20Hz - 20kHz

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

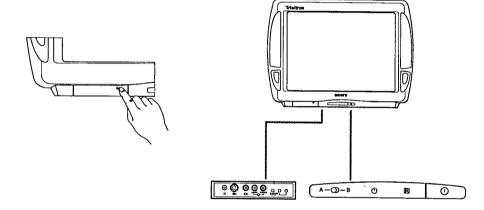
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

1-1. OVERVIEW

6

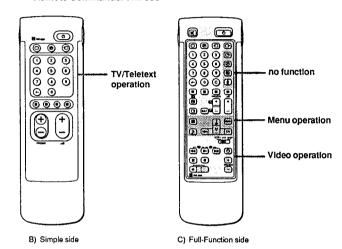
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



Symbol	Name	Refer to page
0	4.6 Main power switch	13
Ф	4.7 Standby indicator	13
A-CD-B	4.8 Stereo A/B indicators	15
Ω	4.9 Headphones jack	20
 ⑤ 3, - ⊙ 3, - ⊙ 3,	4.10 Input jacks (S video/video/audio)	20
P-49	4.11 Function selector (Programme/volume/input)	14
-/+	4.13 Adjustment buttons for function selector	14

Remote Commander RM-830



TV/Teletext operation

The SAT button does not operate with this TV.

A)Note

Symbol	Name	Refer to page
e x	Muting on/off button	14
ø	Standby button	13
0	TV power on/TV mode selector button	13
(F)	Teletext button	14
⊕	Input mode selector	14
⊕	Output mode selector	21
1,2,3,4,5,6, 7,8,9,and 0	Number buttons	13
-/	Double-digit entering button	13
С	Direct channel entering button	10
∆+/ −	Volume control button	13
PROGR+/-	Programme selectors	13
6 6	Teletext page access buttons	17
•	Picture adjustment button	15
P	Sound adjustment button	15
③	On-screen display button	14
€	Teletext hold button	17
©	Time display button	14
****	Fastext TOP-text buttons	17

Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	7
△+/▽−	Select buttons	7
OK	OK (confirming) button	7
	Back button	7

Video operation

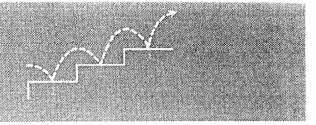
Symbol	Name	Refer to page
VTR1/2/3, MDP	Video equipment selector	22
4>>>	Video equipment operation	22
■ Ii ● む PROGR+/-	buttons	

Note:

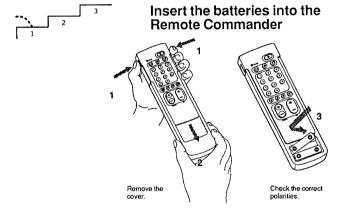
The buttons (3, 1, (3), (3) do not operate with this TV.

5

Ceiting Starited



1-2. STEP 1 PREPARATION

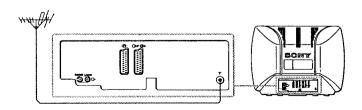




Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

1-3. STEP 2 CONNECTION

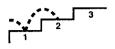
Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the 🏋 socket at the rear of the TV.

Make sure to use an aerial cable, which corresponds to the relevant regulations.

1-4. STEP 3 TUNING IN TO TV STATIONS





Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manuel method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander.
 They are shaded in the illustration at the left.



(1)

To go back to main

menu Keep pressing .

To go back to the normal TV picture Press MENU. Note on the DEMO function

If you choose "Demo" on the main menu, you can see a sequential

demonstration on the menu functions. Press MENU to stop the function.

Choose a language

- 1 Depress On the TV. The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.
- Press MENU.
 The LANGUAGE menu appears (see Fig. 1).
- 3 Select the language you want with △+ or ∇- and press OK.



Display the Menu

- 1 Press the ← button. The main menu appears (see Fig.2). Now, choose one of the following methods «Preset Channels automatically» or
- or «Preset Channels manually».



Fig. 1.





7

Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting Press — on the Remote Commander

Notes
- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 16.

 You can exchange the programme positions to have them appear on screen in the order you like. For details, see "Exchanging Programme Positions" on page



- 1 Select *Preset * with △+ or ▽- and press OK. The PRESET menu appears. (See Fig.3.)
- 2 Select »Auto Programme« with △+ or ∇- and press OK. The AUTO PROGRAMME menu appears. (See Fig.4.)
- 3 Press OK. Select if necessary the TV broadcast system (B/G for western European, D/K for eastern European countries) with △+ or ▽ and press OK. The first element of the »PROG« number will be highligted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽- or the number buttons (e.g. For *04*, select *0* here) and press OK. The second element of *PROG* will be highlighted.
- 5 Select the second element of the double-digit number with △+ or ▽- or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.
- 6 Select *C* or *S* with △+ or ∇- and press OK. The automatic channel presetting starts. When presetting is finished, the PRESET menu reappears. All available channels are now stored on successive number buttons.

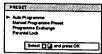


Fig. 3

0.000,000		000000
878	PROG	CH
►8 /3	01	C25

Fig. 4.

SYS	PROG	CH
B/G	CZ	C25

Fig. 5.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

8

If you have made a mistake
Press + to go back to the previous position.
To go back to main menu
Keep pressing + To go back to the normal TV picture Press MENU.

Preset channels manually

- 1 Select *Preset* with △+ or ∇- and press OK. The PRESET menu appears. (See Fig.6.)
- 2 Select -Manual Programme Preset« with △+ or ▽- and press OK.

 The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

ं	RESET
•	Auto Programme Manual Programme Preset Programme Exchange Parental Lock
	Select [] [] and press OK

Fig. 6.

PRO		CH SEARCH	ABEN AF
► 1	B/G	C21 (off)	(on
2	B/G	C34 (off)	(on
3	B/G	C33 (off)	(on
4	B/G	C45 (off)	(on
5	B/G	C35 (off)	(on
6	B/G	C44 (off)	(on
7	B/G	C54 (off)	(on
8	B/G	C30 (off)	(on
	B/G	C38 (off)	(00
10	B/G	C59 (off)	(00

Fig. 7.

To tune in a channel by frequency After selecting F in step 6, enter three digits using the number buttons.

If you have made a

Press ← to go back

To go back to main

Keep pressing +

To go back to the

normal TV picture Press MENU.

to the previous

mistake

menu

3 Using △+ or ▽-, select the programme position (number button) to which you want to preset a channel, and press OK.

4 Select if necessary, the TV broadcast system (B/G for western European countries, D/K for eastern European countries) or a video input source (EXT) with △+ or ▽-.

5 Then press OK. The CH position will be highlighted. (See Fig. 8.).
6 Using △+ or ▽-, select C (to preset a regular channel), or F (to

tune in by frequency) and press OK.
The first element of the =CH= number will be highlighted.
If you have selected EXT in step 4, select the video input
source with △+ or ▽-. (See Fig. 9).

There are two ways to preset channels. If you know the channel number, go to step *7-Manual*,

if you don't know the channel number, go to step =7-Search =.

7 Manual

 -a Select the first element of the »CH» number with △+/∇- or the number buttons and press OK.
 The second element of the »CH» number will be highlighted.

 -b Select the second element of the number with △+ / ∇− or the number buttons.
 The selected number appears. (See Fig. 10.).

Press OK.
 The "SEARCH" position is highlighted and the selected channel is noe stored. (See Fig. 11.).

 d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 7 to preset other channels.

7 Search

- Press OK repeatedly until the colour of the SEARCH position changes.
- -b Start searching for the channel with △+ (up) or ∇− (down). The CH position changes colour. (See Fig. 12.). The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13).

-c Press OK if you want to store this channel. If not, press △+ or
∇- to continue channel searching.

 d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 7 to preset other channels.

2 B/G C (eff) ---- (on)

•

EXT AVI

Fig. 9.

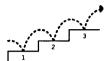
2 B/G C (off) (on)

2 B/G C35 (off) ---- (on) Fig. 11.

2 B/G C35 (off) (on)

2 B/G C35 (AV) (on)

1-5. ADDITIONAL PRESETTING FUNCTIONS



This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- · Locate the Menu operation buttons.

PROGRAMME EXCHANGE

0000

(1) (2) (3) (B)

0000

0000

(O) (O) (O)

@ @=**-**-

6'5'90

믈

①

<u>____</u>

Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select "Programme Exchange" with △+ or ▽- and press OK. The PROGRAMME EXCHANGE menu appears.(See Fig. 14.)
- 4 Using △+ or ∇-, select the programme position you want to exchange with another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using △+ or ∇-, select the programme position to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.



Fig. 14.

3	C12	ARD 11	

PROGRA	MME	EXCHAI	ro E		
PROG 0 1 2 1 3 4 5 6 7	AV1 C32 C26	ZOF ARD	PROGR 8 9 10 11 12 13 14		LABEL SATI RTL
l	Œ	xchange	PR3 with	PR4	

Fig. 16.

For programme positions beyond 15 The display scrolls automatically.

If you have made a mistake
Press - to go back to the previous

To go back to main menu Keep pressing ←.

position

To go back to the normal TV picture Press MENU.

Tuning in a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander. For cable channels, press C twice.

The indication »C« (»S« for cable channels) appears on the screen.

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored. ©

MANUAL PROGRAMME PRESET

PRESET

If you have made a mistake

Press - to go

To go back to

main menu

previous position.

Keep pressing -

To go back to the

normal TV picture

Press MENU.

back to the

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select »Manual Programme Preset« with △+ or ▽- and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 17.)

- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK.
- The »SYS« position changes colour.
- 5 Press △+ or ▽- until »----« appears in the SYSTEM position. (See Fig. 18.)
- 6 Press OK. (See Fig. 19.)

When you select programmes using the PROGR+/-buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.



Fig. 17.

PROGR

	3
_	Fig. 18.

Flg. 19.

MANUAL Captioning a Station Name

You can *name* a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select »Preset« with △+ or ∇− and press OK. The PRESET menu appears.
- 3 Select *Manual Programme Preset * with △+ or ▽- and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)

- 4 Using △+ or ▽−, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with △+ or ▽- and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select – and press OK. (See Fig. 21.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin).

Now the caption you chose is stored. (See Fig. 22.)

7 Repeat steps 5 and 6 to caption names for other channels.

PROG	SY8	CH E	EARCH	LABEL	AF
► 1	B/G	CZ1	(off)		(on
2	B/G	C24	(off)		(on
3	B/G	C25	(off)		(on
4	B/G	C27	(off)		(on
5	BG	C28	(off)		(on
8	B/G	C22	(off)		(on
7	B/G	C26	(off)	*****	(or
	B/G	C25	(080)		(or
	B/G	C23	(off)	*****	for
10	BIG	C29	(off)		ĺœ

Flg. 20.

2	B/G	C25	(off)	\$ (on)
Fig. 2	21.			

Flg. 22.

9

11

MANUAL PROGRAMME PRESET

To reactivate AFT (automatic fine tuning). Repeat from the

beginning and select

»ON» in step 5.

PARENTAL LOCK

0

If you try to select a programme that has been blocked The message -LOCKEDappears on the blank TV screen

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select »Preset« with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select *Manual Programme Preset * with △+ or ▽- and press
- The MANUAL PROGRAMME PRESET menu appears, (See Fig. 23.)
- 4 Using △+ or ▽-, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- 5 Fine-tune the channel with \triangle + or ∇ so that you get the best TV reception. As you press the cursor buttons, the frequency changes from - 15 to + 15. (See Fig. 24.)
- 5 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

Select 🕽 😭 and press OK

Flg. 23.

	2	B/G	C35	(off)		:.	(-3)	1
Fla		4						•

2 B/G C40 (off) ---- (-3) > 3 B/G C41 (off) ---- (on) Fig. 25.

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select "Parental Lock" with △+ or ▽- and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using △+ or ∇-, select the programme position you want to block and press OK. The CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)
- 5 Repeat step 4 to block other programme positions.
- The CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

PROG	SYS	LABEL	PROG	CH	LABEL
► 0	AV1	VHS			
1	C25	ARD	è	C45	
2	C42	ZDF	10	C46	
3	C26	ATL	11		
	C34	SATI	12	C48	
5	C35	••••	13	C49	
	C36		14	C50	
7	Ç40		15		

Fig. 26.

PRO	G CH	LABEL	PROG CH	LAB
0	AV1	VHS		
1	C22	ARD		
2	C42	ZOF		
► 3	C26	RTL		

Fig. 27.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press the P-✓-- button repeatedly until the programme number, △ (for volume), or → (for video input picture) appears. Then adjust with the -/+ buttons.
- · Press -/+ buttons to switch on the TV from the standby mode.
- · Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).

်စ္စီစီစီ 🔐

Watching Teletext or Video Input

Watching teletext

- Press @ to view the teletext,
- · Press three number buttons to select a page.
- · Press one of the coloured buttons for fastext or TOP-Text operation.
- Press

 (PAGE +) or

 (PAGE) for the next or preceeding
- To go back to the normal TV picture, press ().

Watching a video input picture

Press - repeatedly until the desired video input appears. To go back to the normal TV picture, press O.

More Convenient Functions

Use the Full-Function side of the Remote Commander,

Displaying the on screen indications

- Press @ once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make the indications disappear

Muting the sound

Press &.

To resume normal sound, press & again.

Displaying the time

Press . This function is available only when teletext is broadcast.

To make the time display disappear, press @ again.

Cancelling blocking

1 On the PARENTAL LOCK menu, select the programme position you want to unblock with △+ or ▽-.

For details of the

teletext operation

refer to page 17.

For details of the

picture, refer to

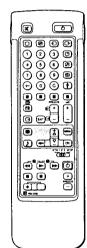
video inout

page 21.

1-6. ADJUSTING AND SETTING THE TV USING THE MENU

PICTURE CONTROL

SOUND CONTROL



If you have made a mistake Press - to go back to the previous position.

To go back to the main Keep pressing -

To go back to the normal TV picture Press MENU.

HUE is only available for NTSC colour systems and RESOLUTION does not work for SECAM colour system.

Note on LINE OUT The audio level and the dual sound mode output from the O+ jack on the rear correspond to the Headphone VOLUME and DUAL SOUND .2DNIII92

When watching a video input picture Vou can select DI IAI SOUND to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

Press (for picture) or) (for sound) on the remote Commander.

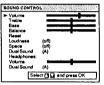
Press MENU and select »Picture Control« or »Sound Control«, then press OK.

The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)

- 2 Using ∆+ or ∇-, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30.)
- Adjust the setting with $\Delta + \text{ or } \nabla \text{ and press OK}$. The cursor appears beside the next item (at the left margin). (See For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.



Fig. 28.



Fla. 29.



Flia. 31.

Effect of each control

PICTURE CONTROL	Effect		
Contrast	Less N	Nore	
Brightness	Darker ——	- Brighter	
Colour	Less —— N	<i>N</i> ore	
Hue	Greenish ——I—— Reddish		
Sharpness	Softer Sharper		
Reset	Resets picture to	the factory preset levels.	
Format	4:3:Normal	16:9: Wide screen effect	
Resolution	Normal	high: Obtain a higher quality picture	
		· · · · · · · · · · · · · · · · · · ·	

SOUND CONTROL	Effect	
Volume	Less —I— More	
Treble	Less —I— More	
Bass	Less — I — More	
Balance	More left — I — M	ore right
Reset	Resets sound to	the factory preset levels.
Loudness	off: Normal	on: When listening to low volume sound.
Space	off: Normal	on: Obtain acoustic sound effect.
Dual Sound	A: left channel	B: right: channel Stereo mono
	The selected mo	de of the A-CO-B Indicator on the TV lights up
	(for NICAM broad	dcasts see next page)
Headphones :		
Volume	Less More	
Dual Sound	A: left channel	B: right channel stereo mono

Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received »NICAM« appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

Service Being Broadcast	Action	Effect	Indication on the TV A-CO-B
Stereo	Press △+ or ▽-	Stereo Nicam (Mono 2-Channel)	# #
		mono	
	gain to return to st	ereo Nicam (mono 2-	
Biangeli	Press	Channel A Nicam	*
	∆+ or ∇-	Channel B Nicam	
		mono	

^{*} Depending on availability of service.

PROGRAMME TABLE

To go back to the normal TV picture Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this

From the main menu, select »Programme Table« with △+ or ▽and press OK.

The PROGRAMME TABLE menu appears, (See Fig. 32.)

To scroll to higher programme numbers, press A -.

To select a programme using this menu Select the programme number with \triangle + or ∇ - and press OK.

The selected programme appears.

TIMER

To switch off the timer Select "OFF" in step 3.

To check the remaining time Press 3.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 From the main menu, select »Timer« with △+ or ▽- and oress.
- The TIMER menu appears. (See Fig. 33.) 2 Press OK.
- The time period option changes colour.
- 3 Select the time period with △+ or ▽-. The time period (in minutes) changes as follows:

 $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$ — OFF —

4 After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts

One minute before the TV switches into standby mode, a message is displayed on the screen.

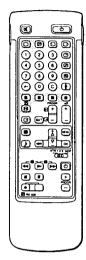
PROC	MAMM	TABLE	******		
PRO		LABE	L PRO	3R CH	LABE
► 1	C21	-	11	C38	
. 5	C24		12	C40	
3	C26		13	C41	
4	C27		14	C43	_
5	C23		15	C54	
6	C22		16	C55	_
7	C38		17	C56	
	C36	_	18	C57	
	C38		19	C46	
10	C39		20	C48	
Select and press OK					

Fig. 32.

eep Timer	(off)

Fig. 33.

16



Note Teletext errors may occur if the broadcasting signals are weak

With the simple side of the Remote Commander You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press @ to switch on teletext

A teletext page will be displayed (usually the index page). If there is no teletext broadcast, »No text available « is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen

If you have made a mistake, type in any three digits. Then reenter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press 1 twice. »Page catching « will be displayed on the information line. The last digit of the first displayed page number
- 3 Using ∆+ or ∇-, select the desired page and press OK. The requested page will appear in a few seconds.

Accessing next or preceding page

Press @ (PAGE+) or @ (PAGE-). The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press @ once in teletext mode or twice in TV mode.
- Press
 again to resume normal teletext reception.

Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line
- · Press @ to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Note Some of the features may not be available depending on the Teletext service.

Note on SUBTITLES If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons

To cancel the request Select »OFF • for the TIME PAGE setting.

Using the Teletext Menu

This TV is provided with a menu-quided teletext system, When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34.)
- 2 Using △+ or ▽-, select the teletext function you want and press OK. (See Fig. 35.)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display. After having selected the function, an information line TOP/BOTTON/FULL will be displayed. (See Fig. 36.)

Press △+ for »Top« to enlarge the uper half, ∇- for »Bottom« to enlarge the lower one and OK for » Full« to resume the

Press @ to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be displayed. (See Fig. 37.)

Press @ to resume normal teletext reception.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes Pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line -REVEAL ON/OFF« will be displayed. (See Fig. 38.)

Using \triangle + or ∇ -, select ON to reveal the information of OFF to conceal it again.

Press et to resume normal teletext reception.

TIME PAGE

available. You may have a page (e.g. an alarm page) displayed

- programme you were watching before you selected TIME PAGE is restored. An information window will be displayed at the bottom of the page.
- 2 To select the desired page, enter three digits for the page number (e.g. 301) using the number buttons.



Fig. 34.



Fig. 35.



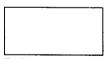


Fig. 37.



Your teletext service will inform you, if a time coded page is

1 Press OK. Using △+ or ▽-, select ON and press OK. The TV

18

To cancel the request Select »Subpage» and press OK.

If two broadcasting stations use the same Teletext You can preset one bank to 2 different programme positions.

ယ

3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons. The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.

Press @ to resume normal teletext mode.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/- or the number buttons (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the »Teletext page bank system«. In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 »banks« (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press @ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- 2 Select PRESET USER PAGES with △+ or ∇- and press OK.
- 3 Select the desired bank with \triangle + or ∇ and press OK. The cursor will go to the first position (P1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons.

The cursor will go to the second position.

- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.
- 6 Select »Allocate Bank« with △+ or ∇- and press OK.
- 7 Select the programme position for which you have preset pages with △+ or ▽- and press OK. (See Fig. 39.).
- 8 Select the desired bank with △+ or ▽- (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages.

- 1 Select MENU.
- 2 Select USER PAGES with △+ or ∇- and press OK. A table of the stored preferred pages will be displayed. (See
- 3 Select the desired page with △+ or ∇- and press OK. The page will be displayed after some seconds.

BANK	Pi	P2	P3	P4	P5	P	5
A .	300	255	458	234	200	17	
В	200	120	301	303	550	34	15
C	100	220	300	444			
B C D E	128	321	255				
Ē	400	238	240	116	127		
	ATE B						
	LABEL	84	ИK				
œ	VHS	-		04	м		D
01	ZDF			05	88		
02	ARO	Ç		06	SA	T	C

Flg. 39,

USER PAGE		 **********
► PAGE 30		
PAGE 20)	
PAGE 20	3	
PAGE 50	i i	
PAGE 23	•	
PAGE 15		

Video signals may be secarated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 2 S Video input jacks through which these separated signals can be input

To connect a VTR

Connect the serial output of the VTR to

of the TV.

on page 8.

from the TV.

the aerial terminal T

We recommend that

you tune in the video

signal to programme

number »0«. For

details see »Preset

channels manually-

If the picture or the

sound is distorted

S video input(Y/C

Move the VTR away

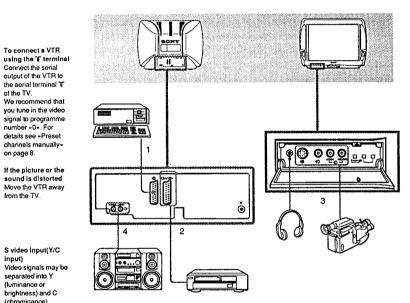
When connecting a monaural VTR Connect only the white → jack to both the TV and VTR.

directly.

1-8. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VTRs, video disc player, and stereo system.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)

Selecting input

number buttons

with PROGR +/- or



Selecting input and output

This section explains how to view the video input picture (of a video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting Input

Press - repeatedly to select the input source.

The symbol of the selected input source will appear.

To go back to the normal TV picture

Press O.

Input modes

Symbol	Input signal
- € 1	Audio/video input through the 🕳 1 connector
-Ð	RGB input through the - 1 connector
- ⊙ 2	Audio/video input through the → 2/ → 2 connector
- ⊚ 2	S video input through the → 2/ → 2 connector
- ⊙ 3	Audio/video input through ← 3 and ← 3 on the front
- ⊚ 3	S video input through the - 3 connectors on the front (4-pin connector)

You can also select the input mode using the pade and -/+ buttons on the TV. In this case, first select -, and then press -/+ buttons to select the input.

Selecting the output

The $\ \ \, \)$ 2 /=§ 2 connector outputs the source input from the other connectors.

Press - repeatedly to select the output.

The symbol of the selected output source appears.

Output modes

Symbol	→ 2/ → 2 connector outputs	_
1 🕞	The audio/video signal from the _⊜ 1 connector	
2 🕞	The audio/video signal from the ⊕•2/ ⊕ connector	
2 ⑤→	The audio/S video signal from the ⊕2/ or ⊕ 2 connector	
3 🕞	The audio/video signal from the - 3 and - 3 connectors	
3 ⑤→	The audio/S video signal from the -® 3 and -⊕ 3 connectors	
TV⊖•	The audio/video signal from the % aerial terminal	

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

- 1 Select *Video Connection* with △+ or ▽- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 41.) You can see Which source is selected for the TV input and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV screen (input source for the TV screen), or Output (output source) with △+ or ▽- and press OK. One of the source items changes colour. (See Fig. 42.)
- 3 Select the desired source with △+ or ▽-. (See Fig. 43.) For details about each source, see the table on page 21.
- 4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 44.)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VTRs or video disc players.

Tuning the Remote Commander to Sony equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8 mm VTR VTR 3: VHS VTR

MDP: Video disc player

2 Use the buttons indicated in the Illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

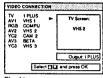


Fig. 41.

TV screen:

Fig. 42.

	AV2 YC2	VHS 2 CAM 2	
į	AV3	BETA	

Fig. 43.

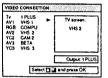
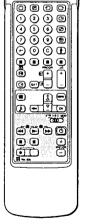


Fig. 44.



(B)

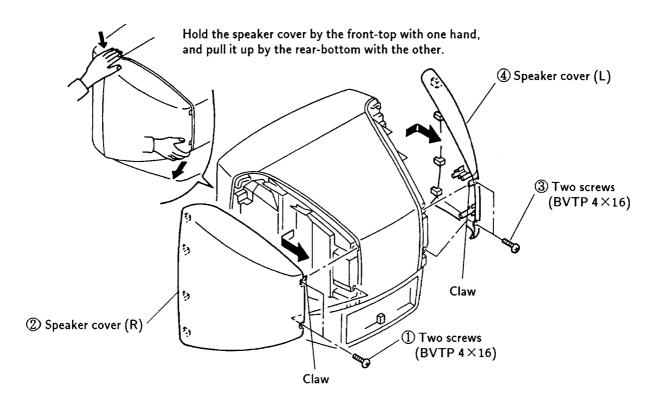
When recording when you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

-Ð 1

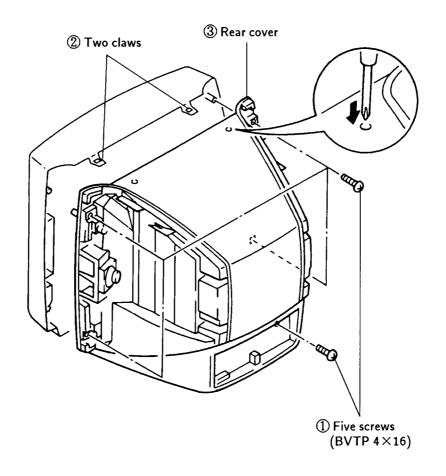
1 🔿

SECTION 2 DISASSEMBLY

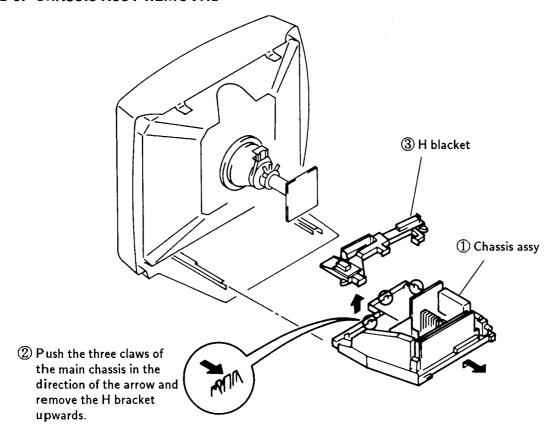
2-1. SPEAKER COVER REMOVAL



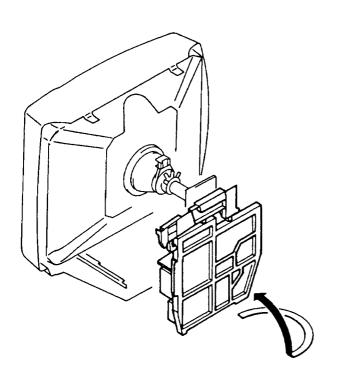
2-2. REAR COVER REMOVAL



2-3. CHASSIS ASSY REMOVAL

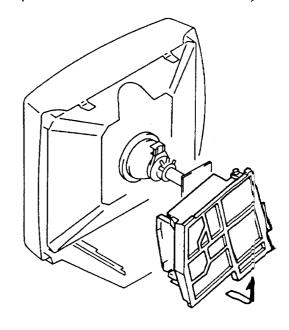


2-4. SERVICE POSITION (1)

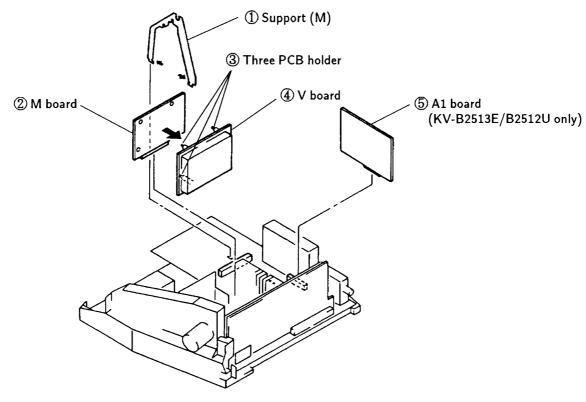


SERVICE POSITION (2)

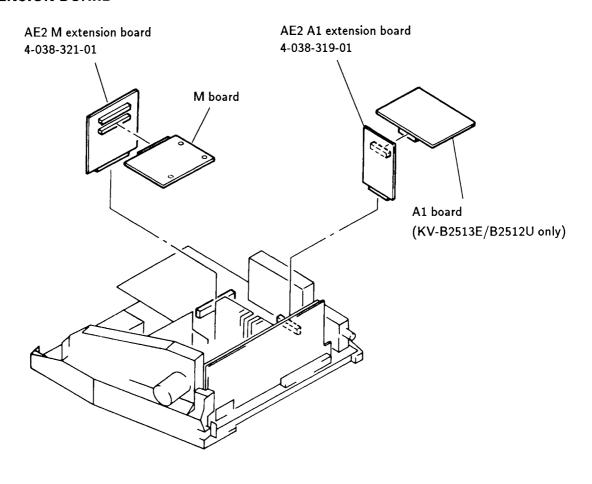
Remove the H bracket from the chassis assyand then perform the following servicing. (Refer to 2-3. CHASSIS ASSY REMOVAL)



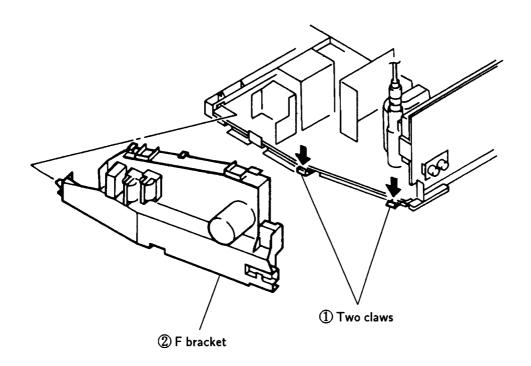
2-5. M, V AND A 1 BOARDS REMOVAL



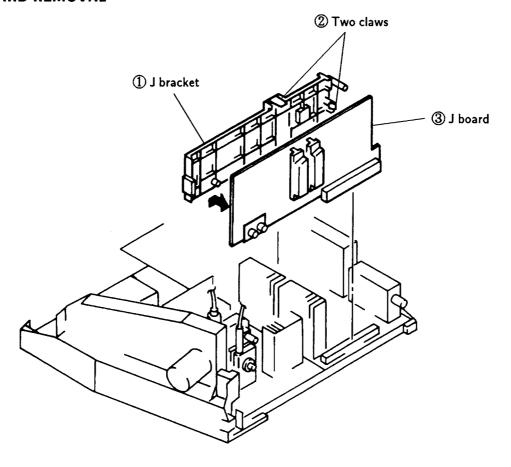
2-6. EXTENSION BOARD



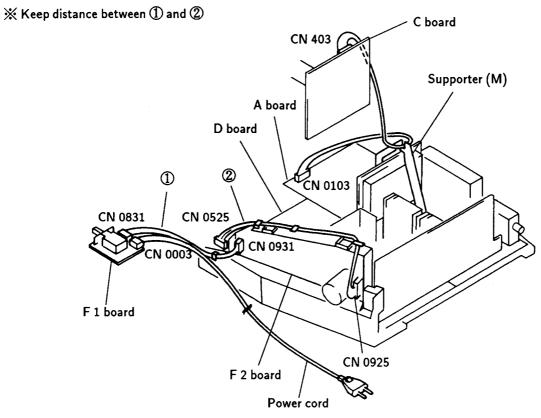
2-7. F BRACKET REMOVAL



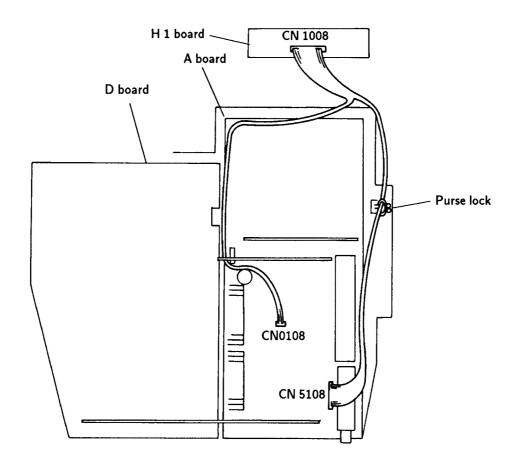
2-8. J BOARD REMOVAL



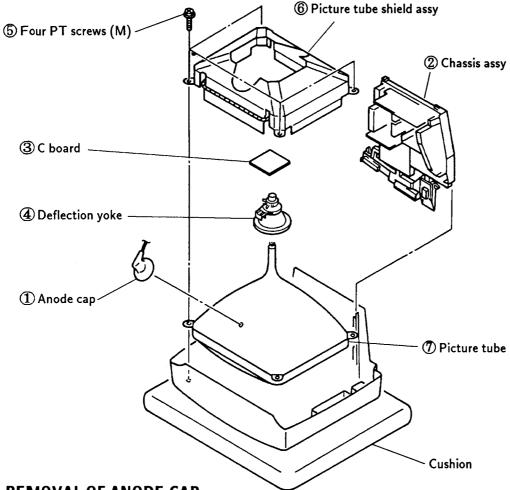
2-9-1. WIRE ROD



2-9-2. WIRE ROD



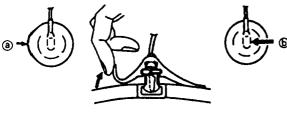
2-10. PICTURE TUBE REMOVAL



REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

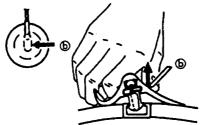
• REMOVING PROCEDURES



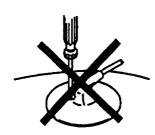
① Turn up one side of the rubber cap in the direction indicated by the arrow ②.

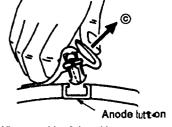
· HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook ter minal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.

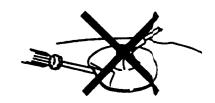


② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑥.





When one side of the rubber caps separated from the anode button the anode-cap can be removed by tuning up the rubber cap and pulling up it in the direction of the arrow ©.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:

Contrast 80% (or remote control normal)

☐ Brightness · · · · · 50%

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast
 Brightness normal
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 3-3)
- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

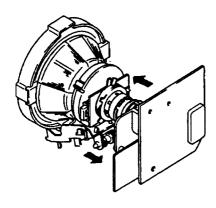
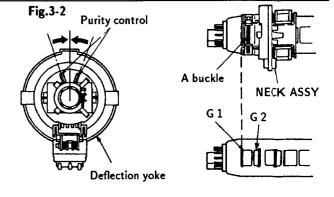
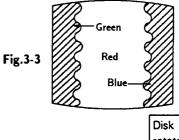
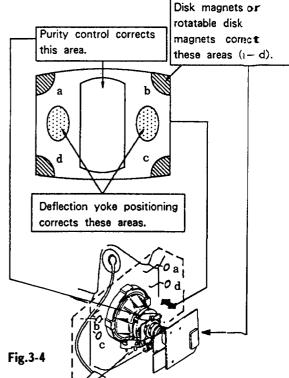


Fig.3-1





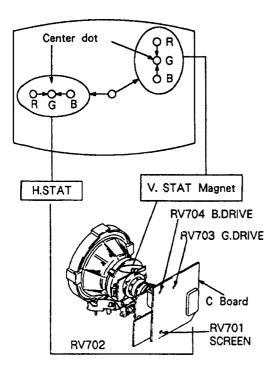


3-2. CONVERGENCE

Preparations:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

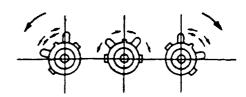
(1) Horizontal and vertical static convergence



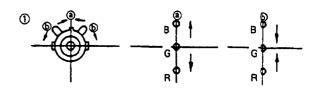
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.

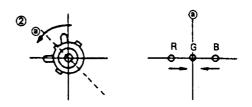
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

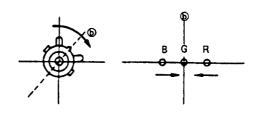
● Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

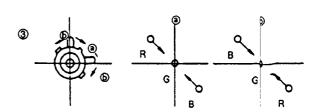


4. If the V.STAT magnet is moved in the direction of the @ and @ arrows, the red, green, and blue points move as shown below.

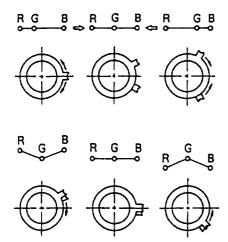






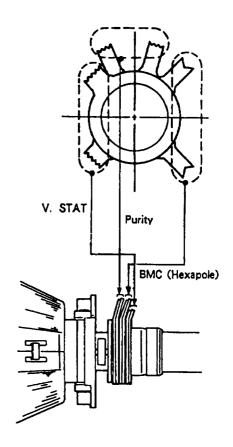


• Operation of BMC (Hexapole) Magnet



• The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

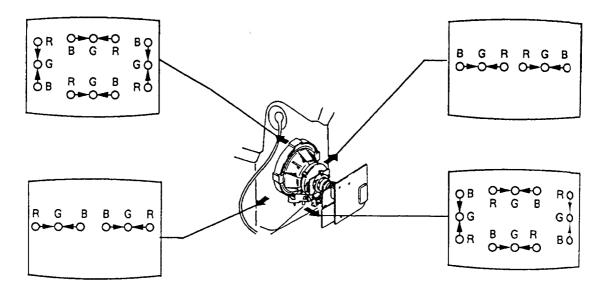


(2) Dynamic convergence adjustment Preparations:

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

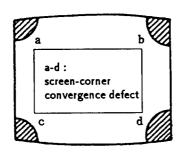
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.

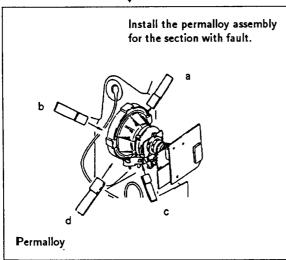


(3) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.

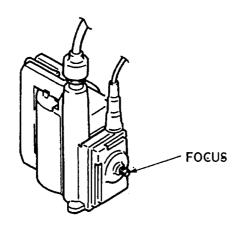






3-3. **FOCUS**

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R,G, and B cathodes with an external power supply.
- While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

- 1. Receive all-white signal.
- Enter into service mode. (Refer to the section 4
 "Electrical Adjustment" to how to enter service
 mode.)
- 3. Select CXA1587S on menu.

CXA1587S

Item No.	Adjustment item	Data amout
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	A DJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	A DJ.

- 4. Set picture to MAX.
- 5. Adjust G-DRIVE B-DRIVE with **(1)**, **(2)** buttons so that the white balance becomes optimum.
- 6. Press OK button to write the data for eachite m.
- 7. Set picture to MIN.
- 8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R
 -MANUAL CUT OFF, G-MANUAL CUT OFF and
 B-MANUAL CUT OFF with the buttons so
 that the white balance becomes optimum.
- 9. Press OK button to write the data for eachite m.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-830.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

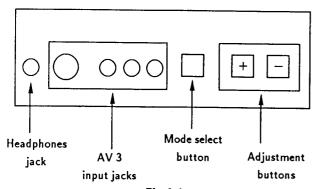
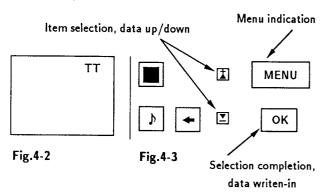


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode



3. Press the MENU button of the commander to get the menu on screen.

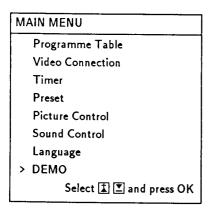


Fig.4-4

- 4. Press the
 ☐ and ☐ buttons of the commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

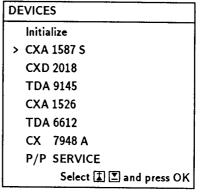


Fig.4-5

- 7. If adjustment item is CXA 1587 S, press the 🗵 button and move > to CXA 1587 S.
- 8. Press OK button to get the next selection menu.

CXA 1587 S

0,0,1200,0		
Item No.	Adjustment item	Data Amout
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	10
07	SUB CONTRAST	8
08	SUB COLOR	8
09	SUB BRIGHT	31
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	32
15	B-DRIVE	32

- 9. Press Dutton and move > to the adjustment item and press OK button.
- 10. Press the 🗓 and 💆 buttons to change the data in order to comply each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when completing the adjustment.

CXA1587S

CXA1587S			
Item No.	Adjustment item	Data Amout	
01	PICTURE	53	
02	COLOR	31	
03	BRIGHT	31	
04	HUE	31	
05	SHARPNESS	7	
06	RGB PICTURE	10	
07	SUB CONTRAST	8	
08	SUB COLOR	ADJ.	
09	SUB BRIGHT	ADJ.	
10	SUB HUE	8	
11	VM LEVEL	2	
12	NR LEVEL	0	
13	ABL MODE	0	
14	G-DRIVE	ADJ.	
15	B-DRIVE	ADJ.	
16	G-AUTO CUT OFF	ADJ.	
17	B-AUTO CUT OFF	ADJ.	
18	R-MANUAL CUT OFF	ADJ.	
19	G-MANUAL CUT OFF	ADJ.	
20	B-MANUAL CUT OFF	ADJ.	
21	GAMMA LEVEL	0	
22	DC TRANSFER RATIO	0	
23	DYNAMIC PICTURE	0	
24	Y FILTER ADJ	ADJ.	
25	Y DELAY TIME	15	
26	Y DELAY SWITCH 1	OFF	
27	Y DELAY SWITCH 2	ON	
28	SHARPNESS LIMIT	ON	
29	ALL BLK	OFF	
30	H SHIFT	32	
31	DAC TEST	AUTO	
32	PRE/OVER SHOOT	8	
33	SHARPNESS FO	2	
34	SUB SHARPNESS	3	
35	R MUTE	OFF	
36	G MUTE	OFF	
37	B MUTE	OFF	

38	AGING 1	OFF
39	AGING 2	AUTO
40	AKB OFF	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	AUTO
43	V/2 V	ON
44	AXIS	AUTO
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	ON
48	AFC 2	OFF
49	AFC OFF	ON
50	REF.POSITION	OFF

CXD 2018

Item No.	Adjustment item	Data Amout
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	15
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	OFF
20	H SHIFT	ADJ.
21	N/S CORRECTION	ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612

Adjustment item	Data Amout
Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

2.

3. 4.

SL 1.

2. 3.

> SI 1.

3.

Sl 2.

3.

4.

Y FILTER ADJUSTMENT

- 1. Input PAL RED pattern.
- 2. Connect an oscilloscope to CN 0403 ① pin (R OUT) on the C board.
- 3. Enter into service mode and press 3, 8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element of CN 0403 1 pin.

SUB BRIGHTNESS ADJUSTMENT

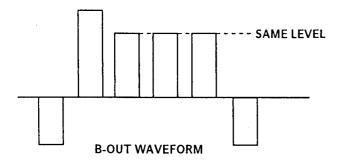
- 1. Input Phillips pattern.
- 2. Enter into service mode and press 23.
- Adjust data so that 0-IRE of the grey scale and CUT
 -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains small 100% area on the Black Back ground.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R out).

SUB COLOR ADJUSTMENT

- 1. Input PAL color bar.
- 2. Connect an oscilloscope to CN 0403 ③ pin (B OUT) on the C board.
- 3. Enter into service mode and press 22 of CXA 1587 S, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform will be the same.



STEREO-SEPARATION ADJUSTMENT

- 1. Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

DE

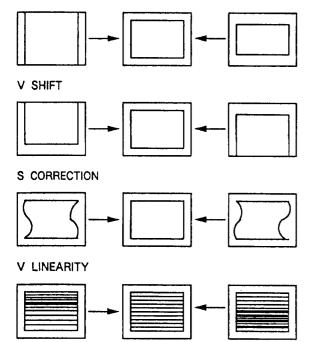
DEFLECTION SYSTEM ADJUSTMENT

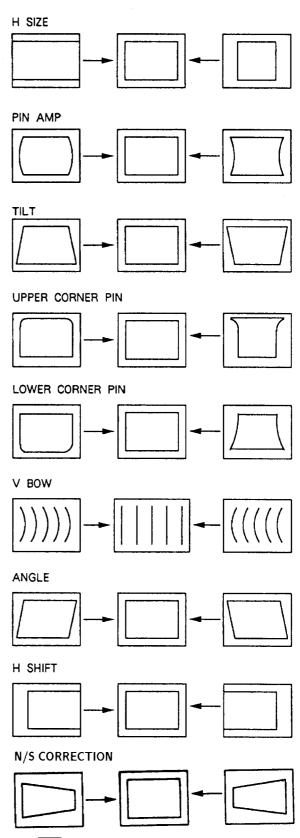
- 1. Enter into service mode and select CXD 2018.
- 2. Select and adjust each item in order to get an optimum image.

CXD 2018

Item No.	Adjustment item	Data Amout
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	. 8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.







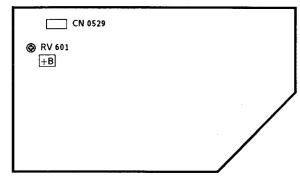
3. Press OK button to write the data.

If menu display may disturb the adjustment press of to clear, to resume it, press of again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

+B (+135 V) ADJUSTMENT (RV 601)

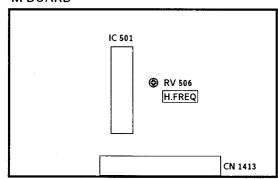
D BOARD



- 1. Turn on the power of the TV set.
- 2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
- 3. Adjust RV 601 on D board to $+135\pm0.5$ V.

H.FREQ ADJUSTMENT (RV 506)

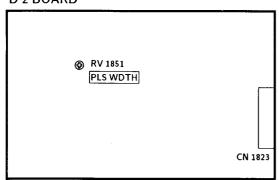
M BOARD



- 1. Connect GND to 12 pin of IC 501 on M board.
- 2. Connect a frequency counter to 4 pin of IC 501.
- 3. Adjust RV 506 on M board to $15,625~\mathrm{kHz} \pm 10~\mathrm{Hz}$.
- 4. Remove 12 pin of IC 501 from GND.

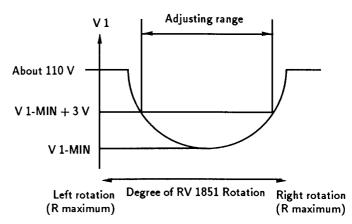
PLS WDTH

D 2 BOARD



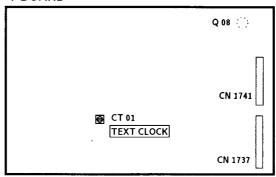
DRIVE PULSE PHASE ADJUSTMENT(RV 1851)

1) While measuring the voltage V 1 at both edges of C 1859, rotate RV 1851 so that it becomes minimum. The adjusting range is from (the voltage at which V 1 becomes minimum) V 1 MIN to 3 V, which means, adjust to between V 1 MIN to V 1 MIN + 3 V.



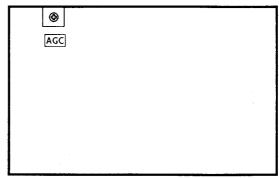
TEXT CLOCK ADJUSTMENT (CT 01)

V BOARD



- 1. Get TEXT MENU on screen.
- 2. Connect GND and the base of Q 08 on V board.
- 3. Adjust CT 01 on V board so that the MENU stands still as much as possible.

AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.

— 31 —

- 2. Adjust AGC VR so that there is no snow noise and cross-modulation.
- 3. Change receiving channel and confirm status.

4-3. TEST MODE 2:

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness
	max., Aging 2 Mode of CXA 1587 S, TDA 2595 is
	locked to CXA 1587S via PIN 34 of μ -Con.)
08	Shipping Condition (Analog Values are RESET due
	to factory setting, Prog 1 is selected, TT Mode is
	switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM
	Reads Volume, Balance, Treble, Bass, Brightness,
	Contrast, Hue, Sharpness, Colour values from ROM
	to the actual used values (Last Power Memory)
16	Save actual used values as RESET values
	Memorize actual used values Balance, Treble, Bass,
	Hue, Sharpness at RESET position in NVM
17	Preset Level for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted	
31	Green Drive	
32	Blue Drive	
33	Green Cut Off (Auto Cut Off)	
34	Blue Cut Off (Auto Cut Off)	
35	Red Cut Off (Manual Cut Off)	
	(Auto Cut Off is switched off)	
36	Green Cut Off (Manual Cut Off)	
	(Auto Cut Off is switched off)	
37	Blue Cut Off (Manual Cut Off)	
	(Auto Cut Off is switched off)	
38	Y-Filter adjustment (Trap is switched off and TDA	
	9145 is switched in forced NTSC Mode)	
39	dummy	
40	Tenth entry is deleted	
41	Default setting of CXA 1587S	
	(Only in Plog 99 available)	
42	Default setting of CXA 2018	
	(Only in Plog 99 available)	
43	Default setting of CXA 1526	
	(Only in Plog 99 available)	
44	(all Port High) Not yet	
45	(all Port High) Not yet	
46-48	dummy	
49	Erease the NVM Testbyte (this byte detects already	
	stored NMV's) After selecting this function, switch	
	TV Off and On $ ightarrow$ the NVM will be preset by μ -	
	Controller. (Not the channel data)	

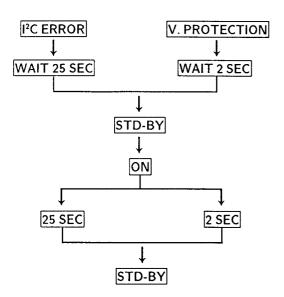
Note: For No. 35, 36, 37 and 38 special pressing
(AKB, forced Color Mode, Trap) is selected.
After selecting a new Test Mode Number,
the AKB is switched ON, the Trap is
switched On and TDA 9145 is switched to
Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnos system can operate as follows.

 When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs show error 2).

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION
1	I C BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner PII
4	TDA 9145	Colour decoder
5	CXA 1587S	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection

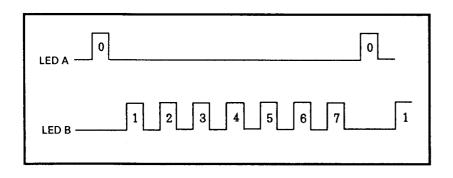
Stand by LED blinking

No IK return

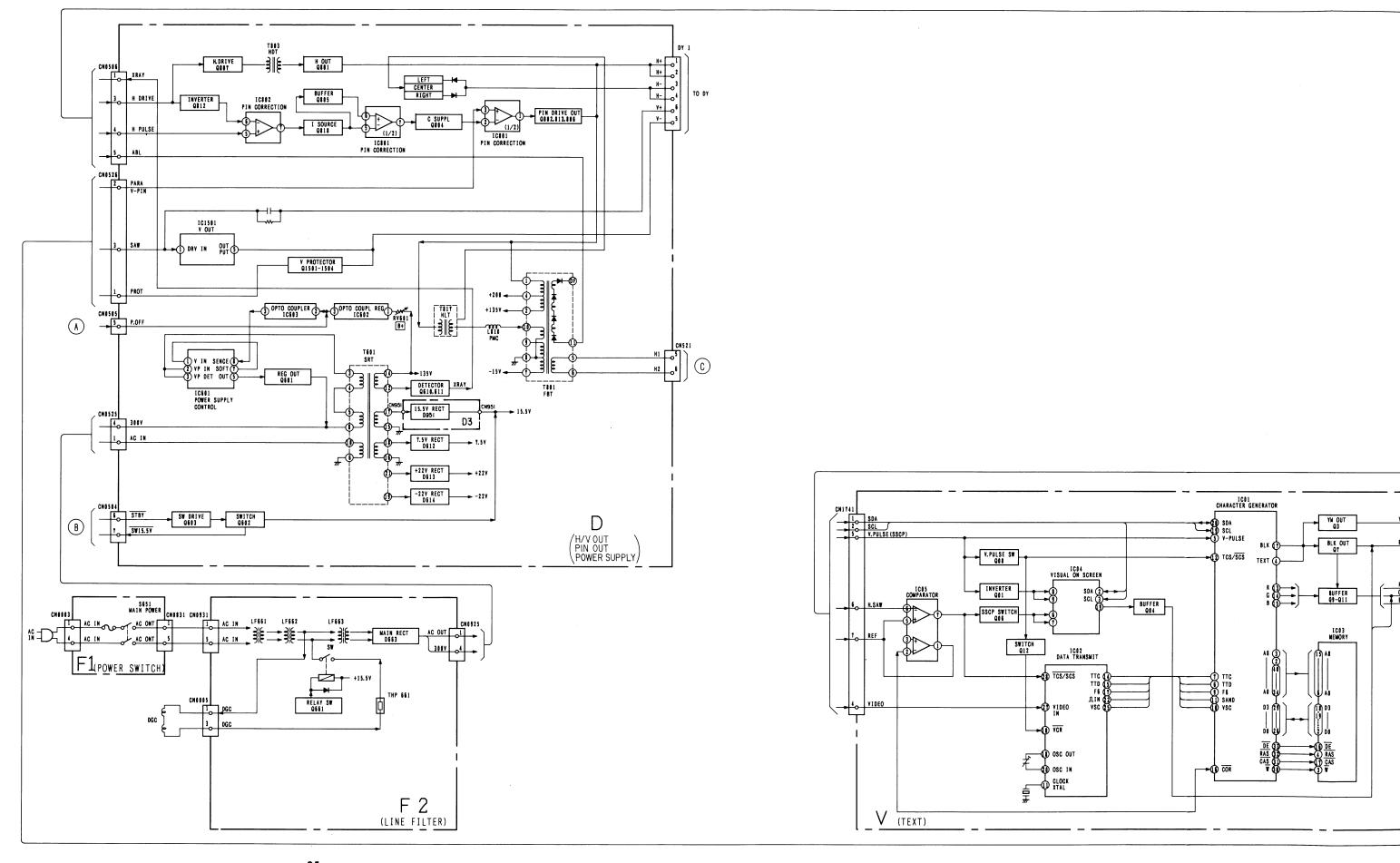
4-5. ERROR II C BUS DIAGNOSIS SYSTEM IN AE 2 CHASSIS

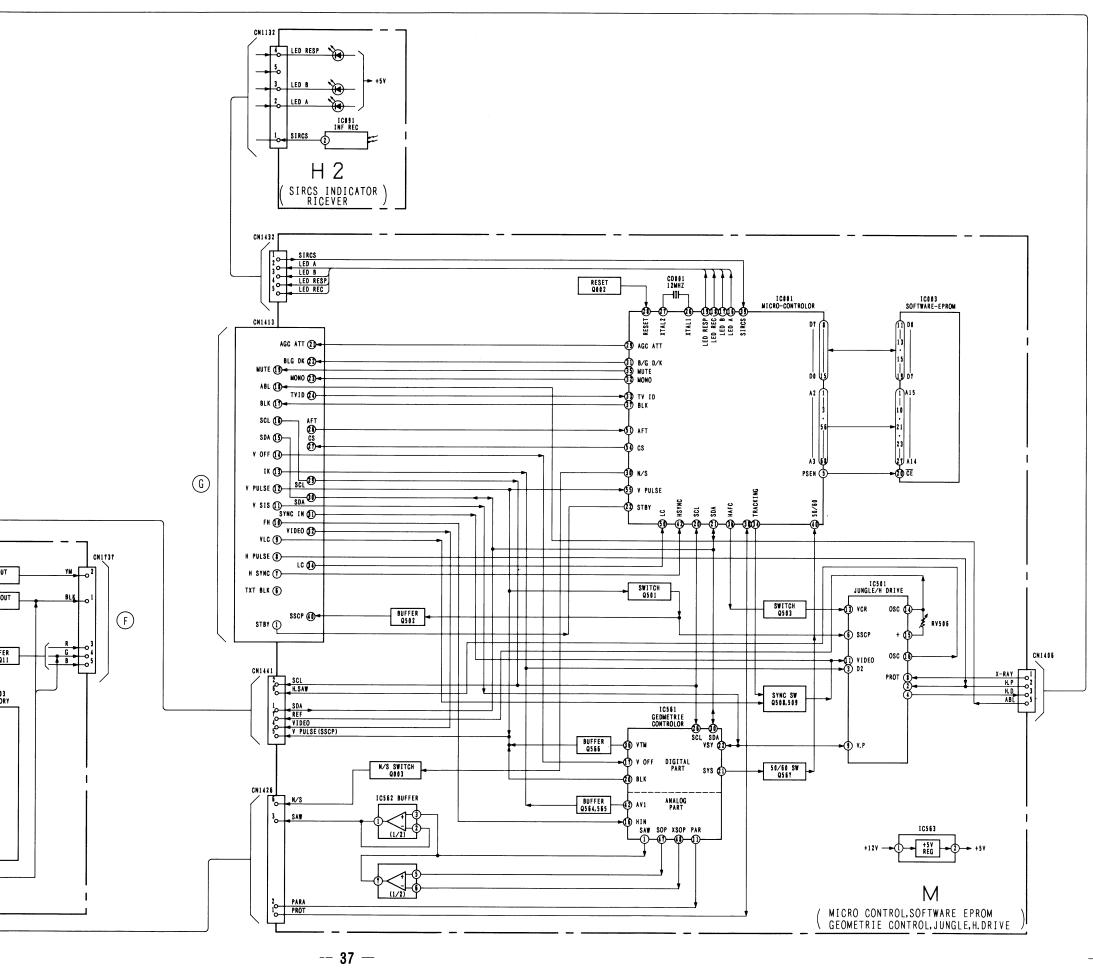
For all ICs in AE2 chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B start blinking as shown.

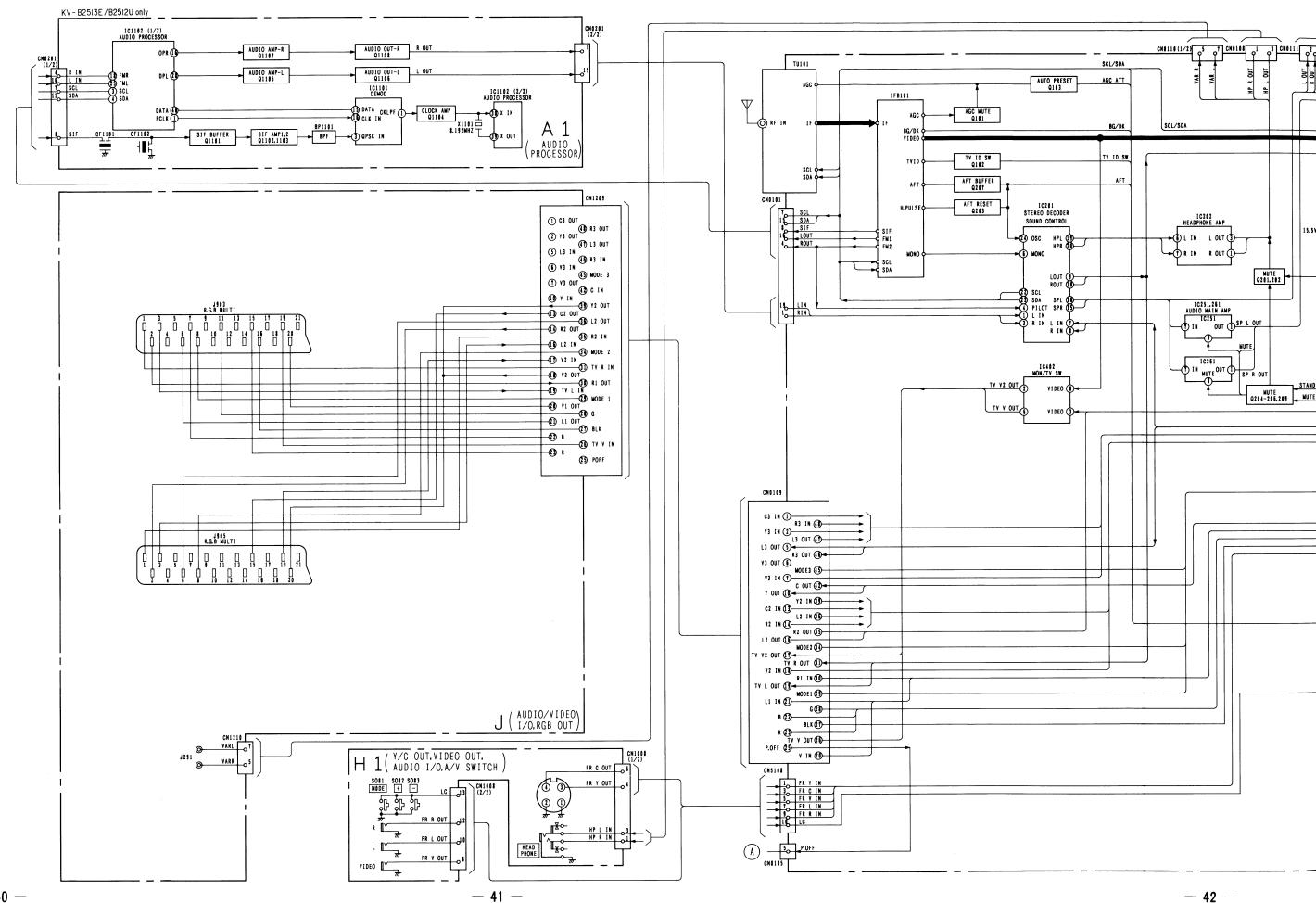


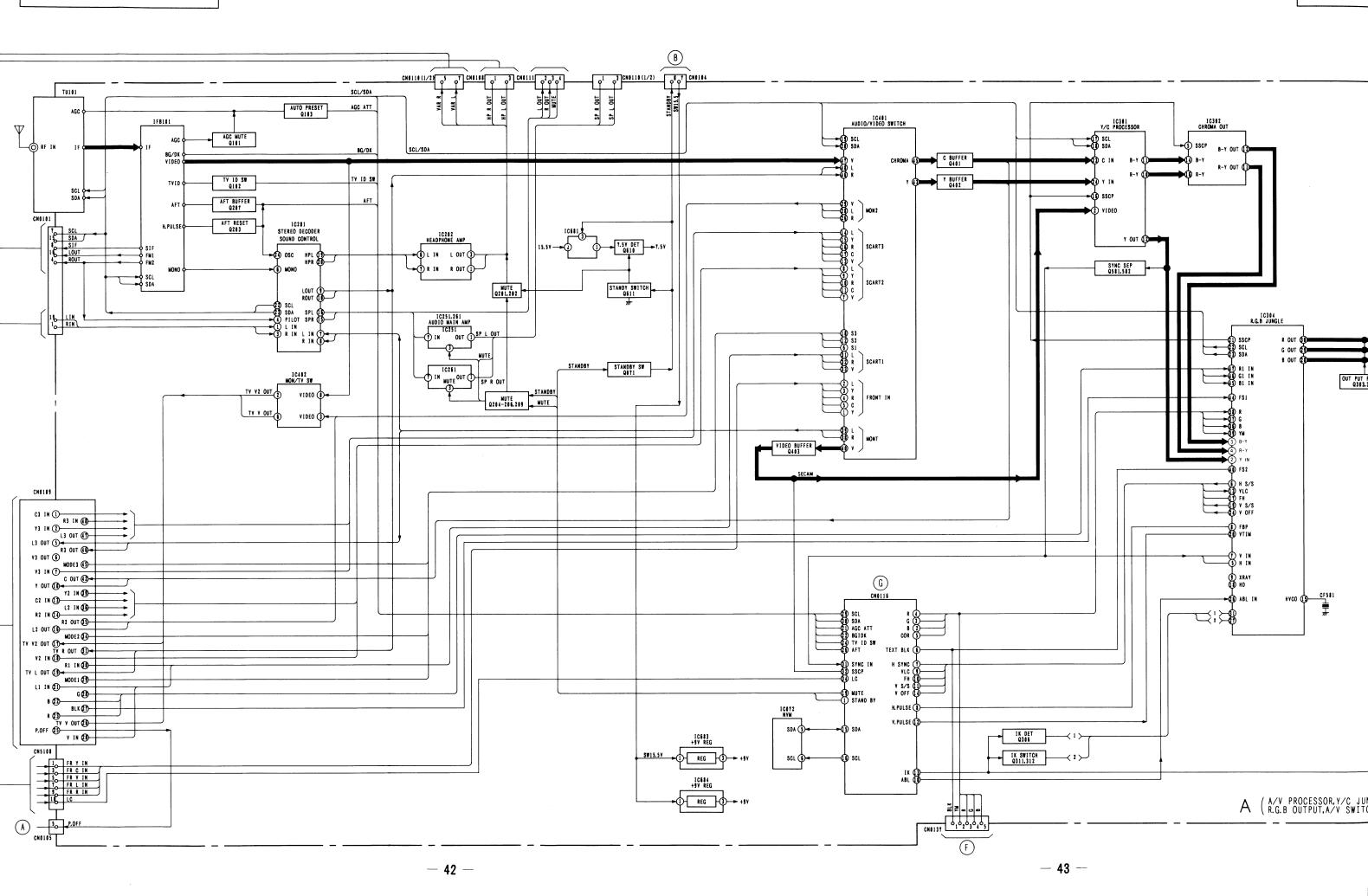
KV-B251

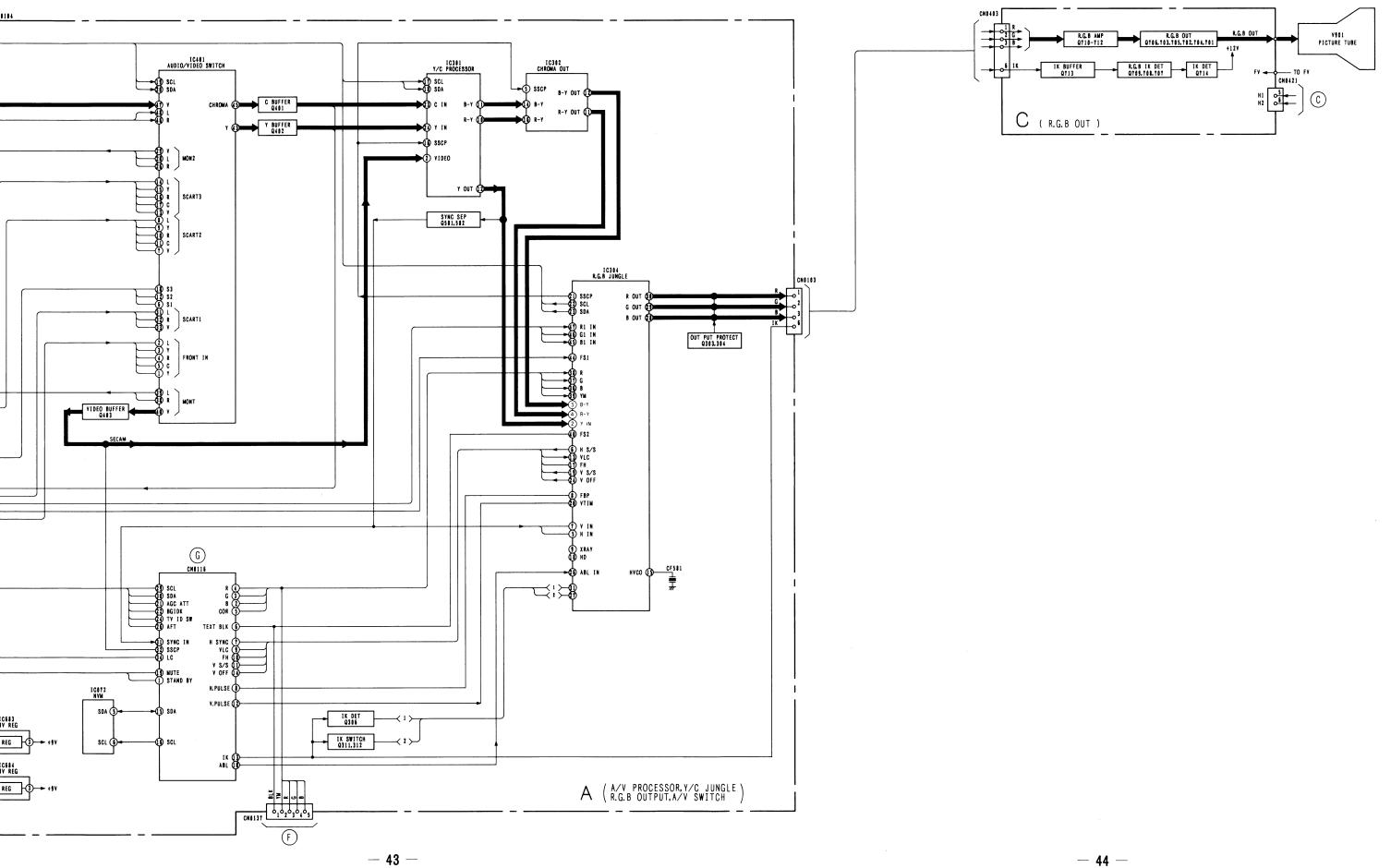




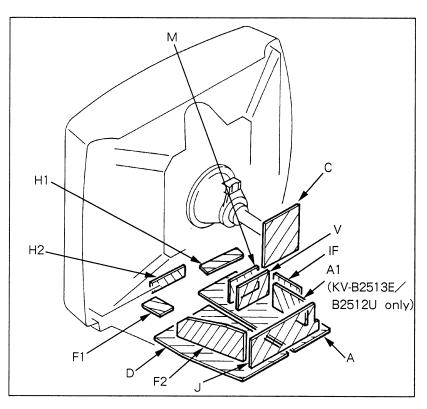
5-2. BLOCK DIAGRAM (2)







5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in $\mu\,\text{F}$ unless otherwise noted. pF: µµF 50WV or less are not indicated except for
- · Indication of resistance, which dose not have one for rating electrical power, is as follows.

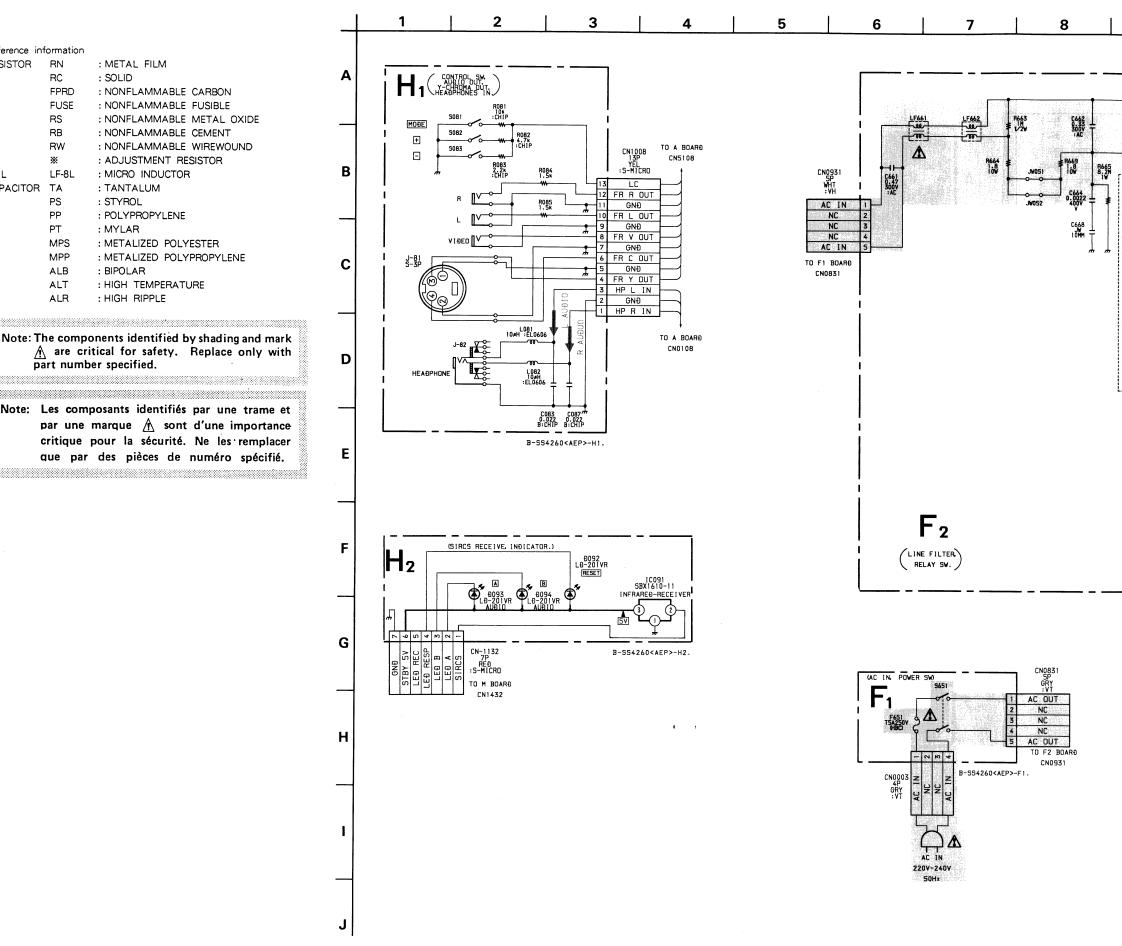
Pitch: 5mm Rating electrical power: 1/4W

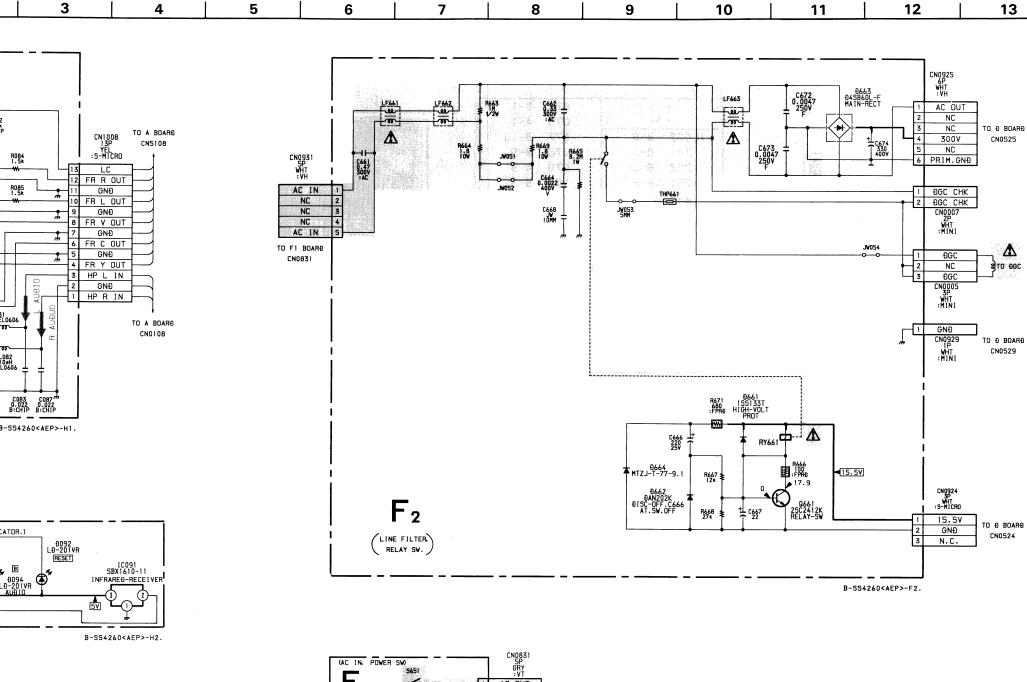
- Chip resistor is in 1/10W.
- · All resistors are in ohms. $k \Omega = 1000 \Omega$, $M \Omega = 1000 K \Omega$
- : nonflammable resistor.
- fusible resistor.
- Δ : internal component.
- _____: panel designation or adjustment for repair.
- · All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a $10M\Omega$ digital multimeter.
- · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : signal path.(RF) ___ : earth - ground
- · : earth chassis

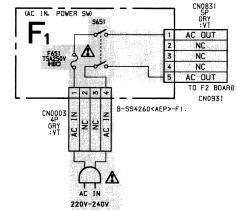
Reference information RESISTOR RN : METAL FILM RC : SOLID **FPRD** : NONFLAMMABLE CARBON : NONFLAMMABLE FUSIBLE FUSE RS : NONFLAMMABLE METAL OXIDE RB : NONFLAMMABLE CEMENT : NONFLAMMABLE WIREWOUND RW : ADJUSTMENT RESISTOR LF-8L : MICRO INDUCTOR COIL CAPACITOR TA : TANTALUM : STYROL PS : POLYPROPYLENE PT : MYLAR : METALIZED POLYESTER : METALIZED POLYPROPYLENE ALB : BIPOLAR ALT : HIGH TEMPERATURE : HIGH RIPPLE

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.







-46 -

KV-B251 KV-B251

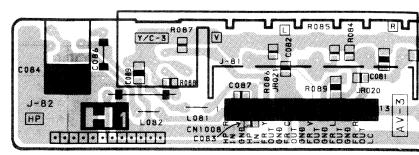


CONTROL SW, AUDIO OUT, 7 Y-CHROMA OUT, HEADPHONE IN

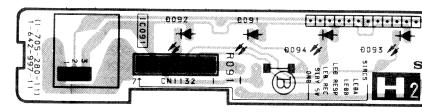


SIRCS RECEIV INDICATOR

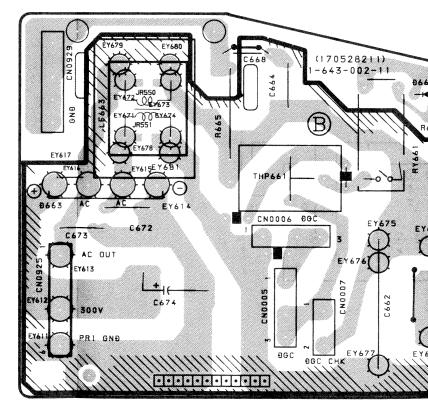
- H1 BOARD -



- H2 BOARD -

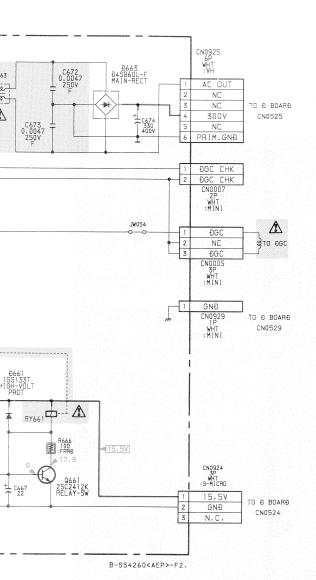


- F2 BOARD -



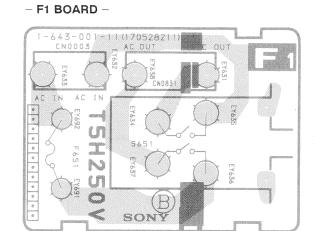
1-643-004-

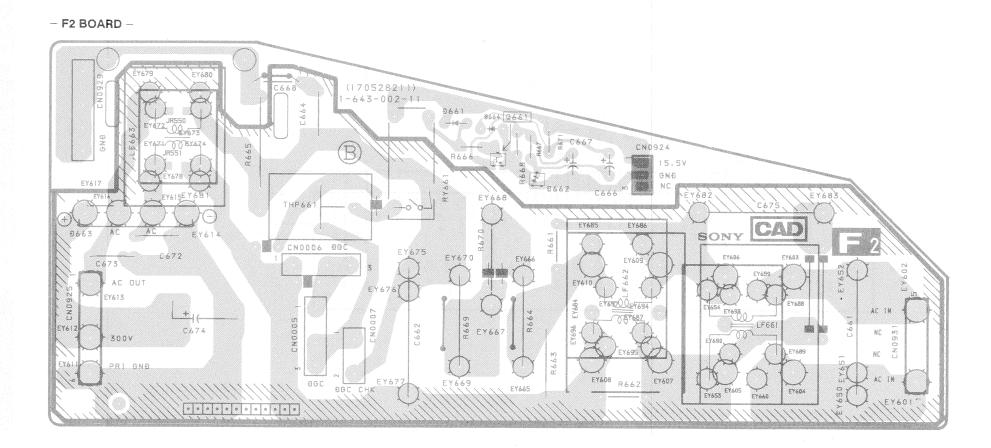
11 | 12 | 13

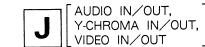




- H1 BOARD -

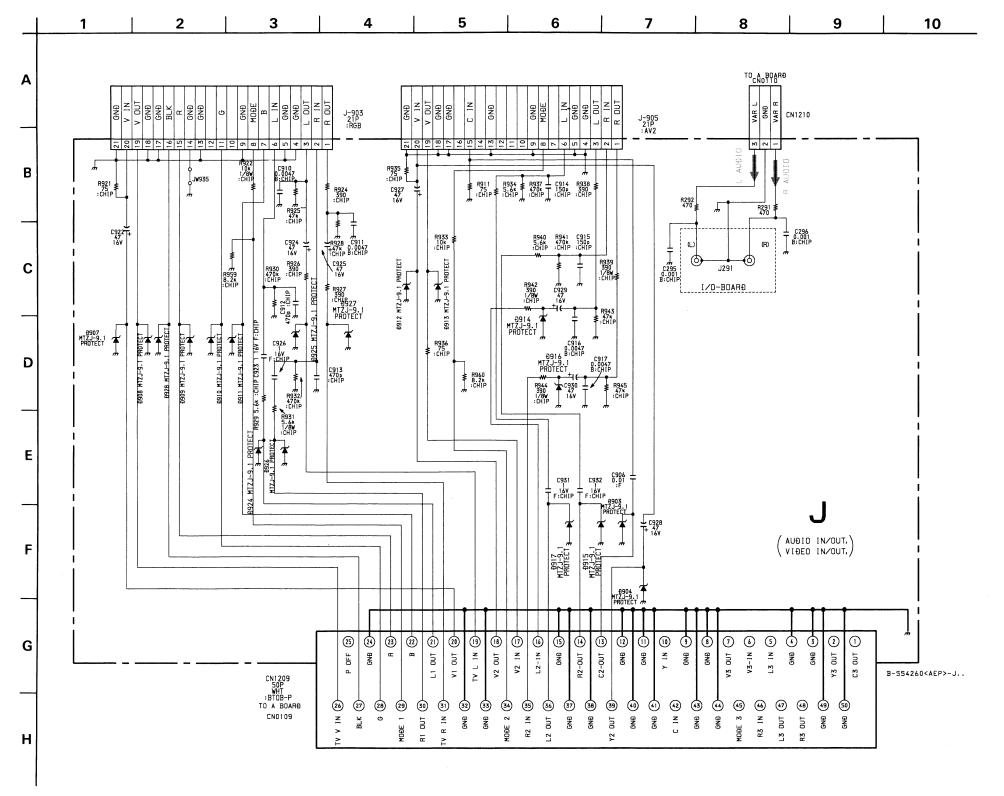






- J BOARD -





DIODE D903 B – 4 D904 A – 5 D907 A – 6 D908 B - 7 D909 B - 7D910 B - 7 D911 B - 7 D912 A – 5 D913 A – 6 D914 B - 6 D915 C - 5 D916 C - 6 D917 B - 5 D924 B - 6 D925 C - 7 D926 C - 7 D927 C - 7 D928 D - 4



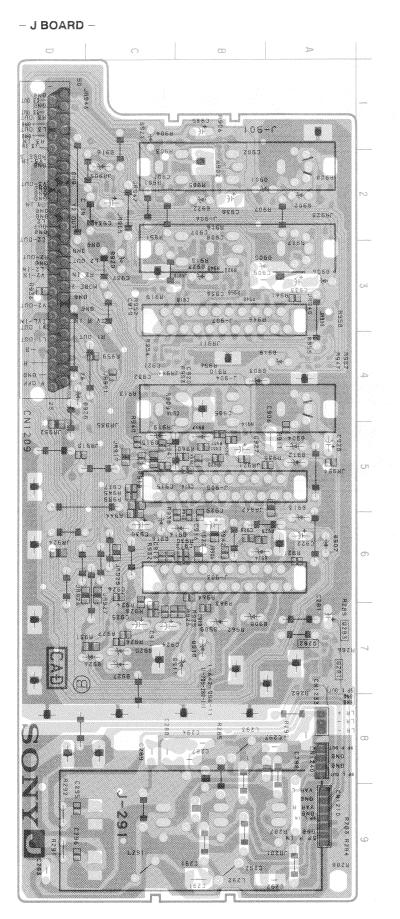
- · Pattern from the side which enables seeing.
- Pattern of the rear side.

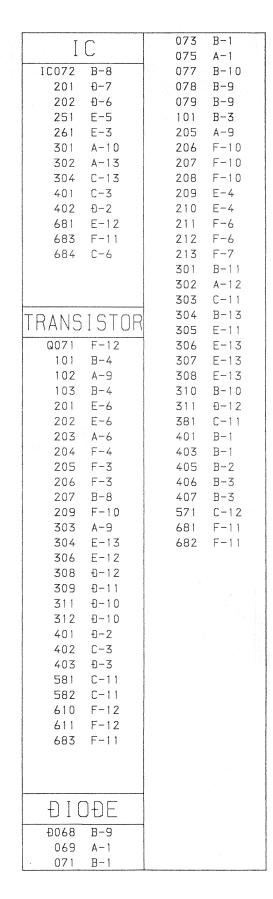


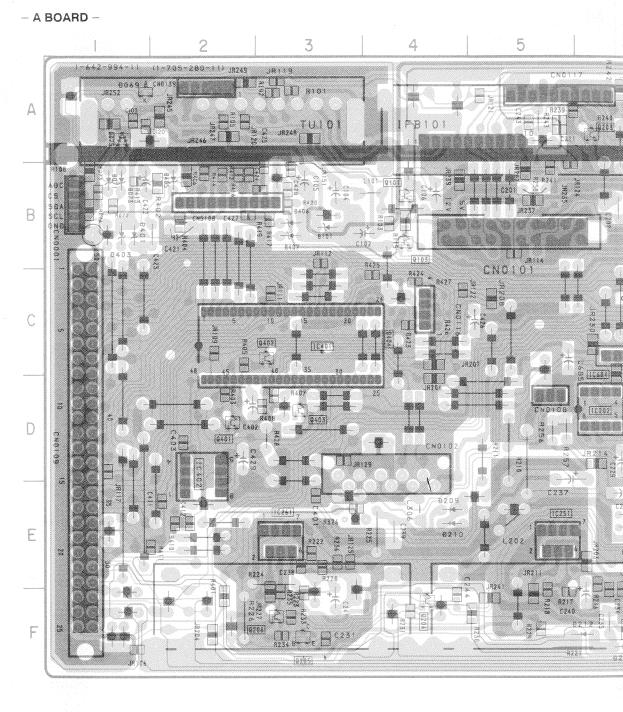


10

DIO	DΕ
D903	B – 4
D904	A – 5
D907	A - 6
D908	B-7
D909	B - 7
D910	B - 7
D911	B - 7
D912	A - 5
D913	A - 6
D914	B - 6
D915	C-5
D916	C-6
D917	B - 5
D924	B-6
D925	C-7
D926	C - 7
D927	C - 7
D928	D-4





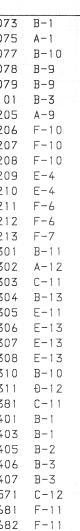


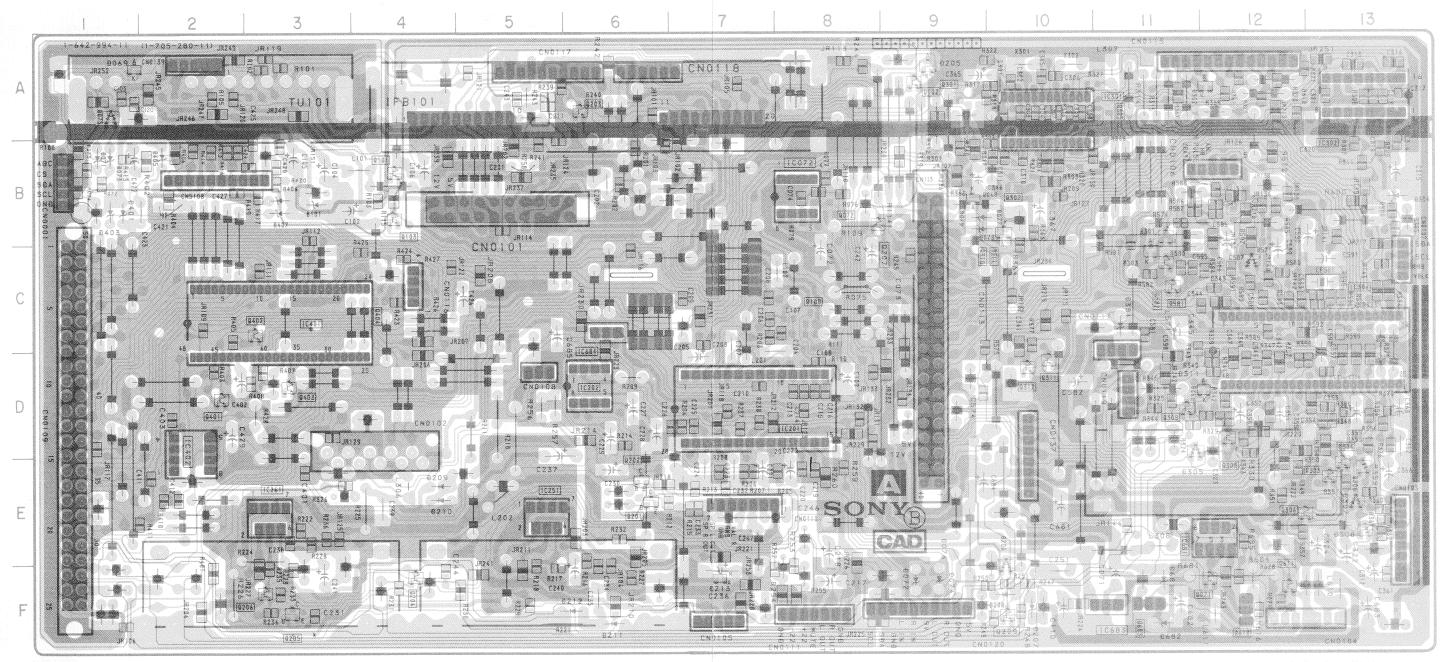
: Pattern from the side which enables seein

B-SS4260<AEP>-J..

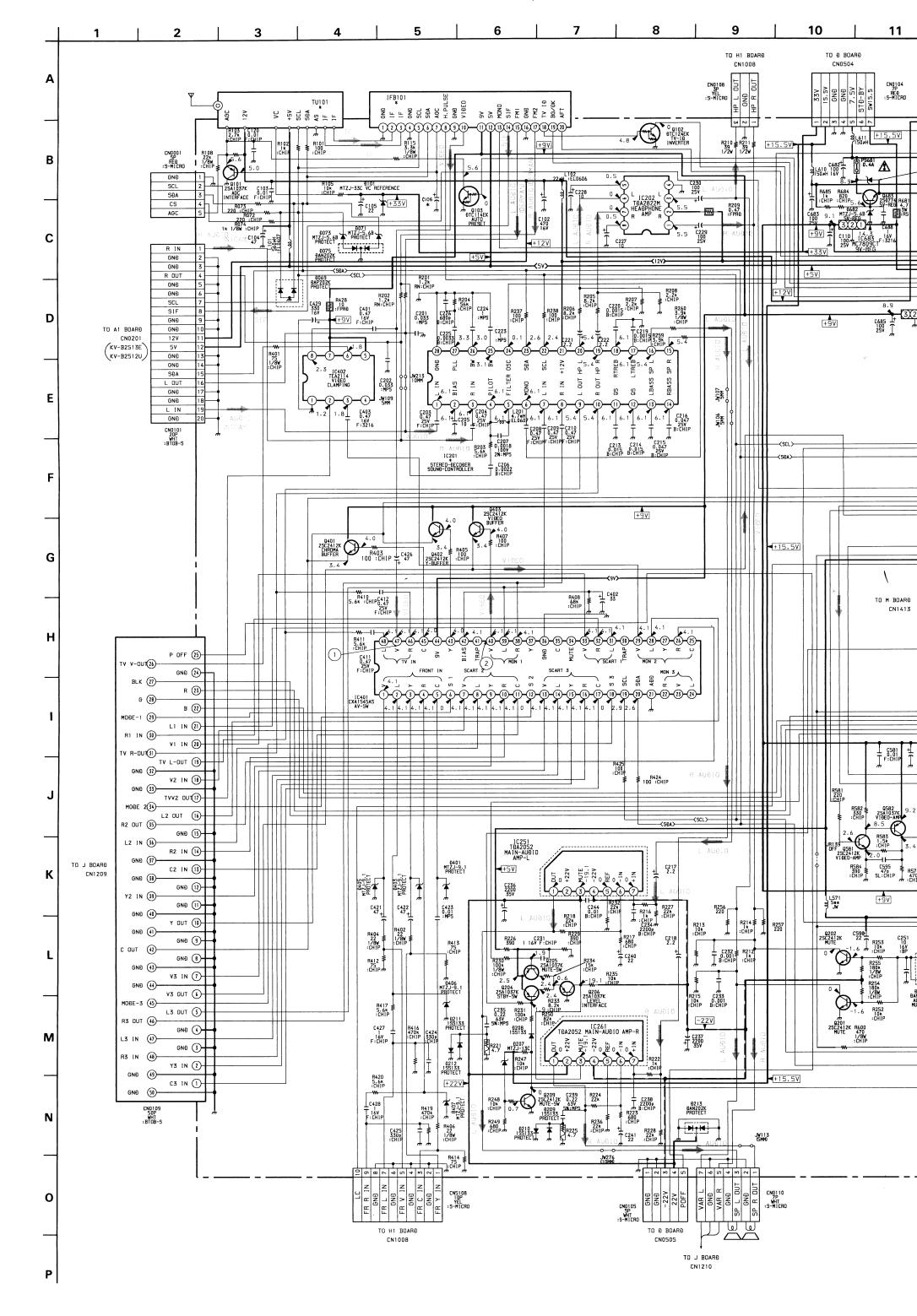
: Pattern of the rear side.

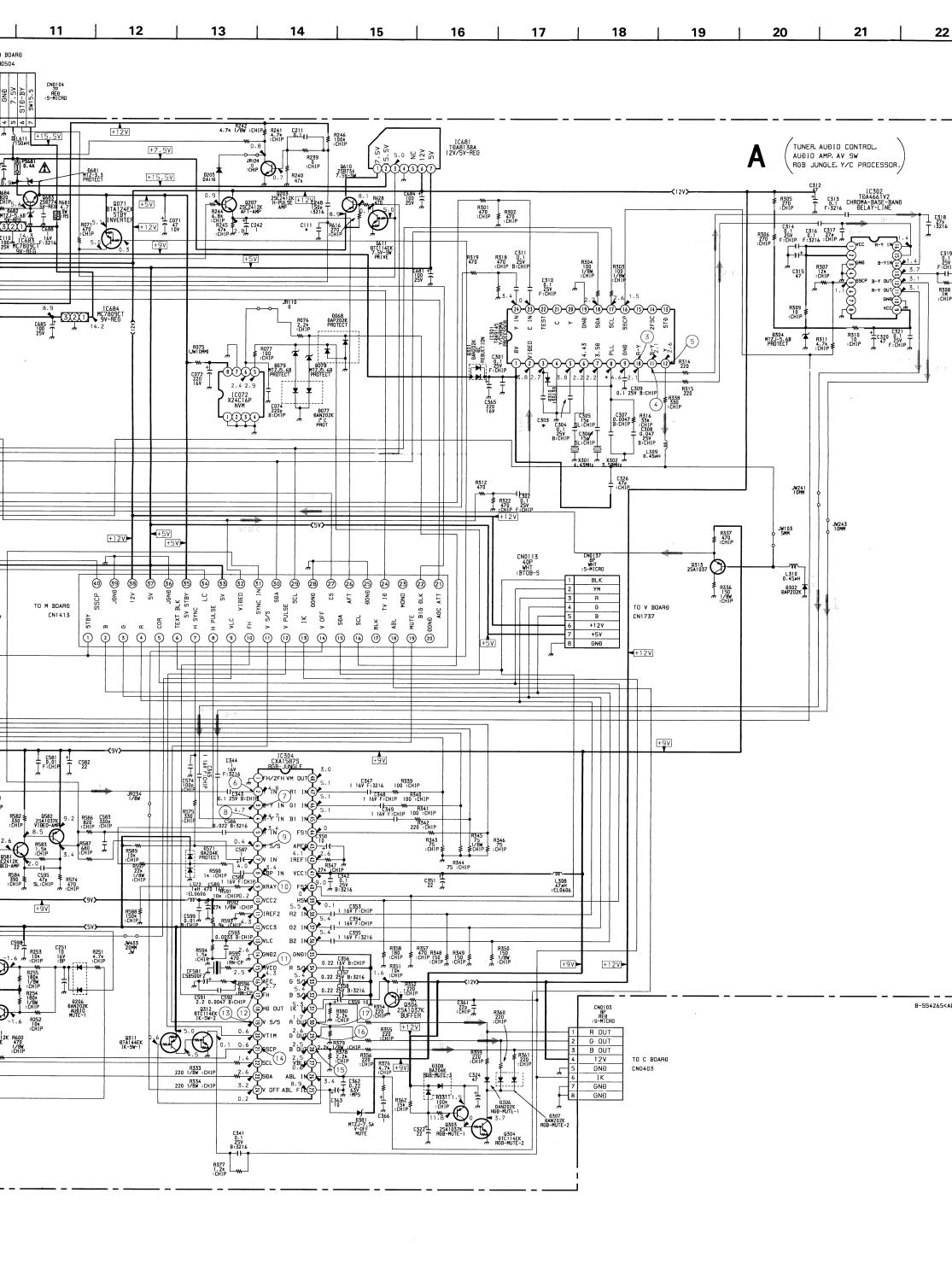






- . Pattern from the side which enables seeing.
- · : Pattern of the rear side.





20 | 21 | 22

TUNER, AUĐIO CONTROL,

C316 C317 T 0.1 27p T F:3216 :CHIP #

C315

JW241 10MM

JW103 5MM

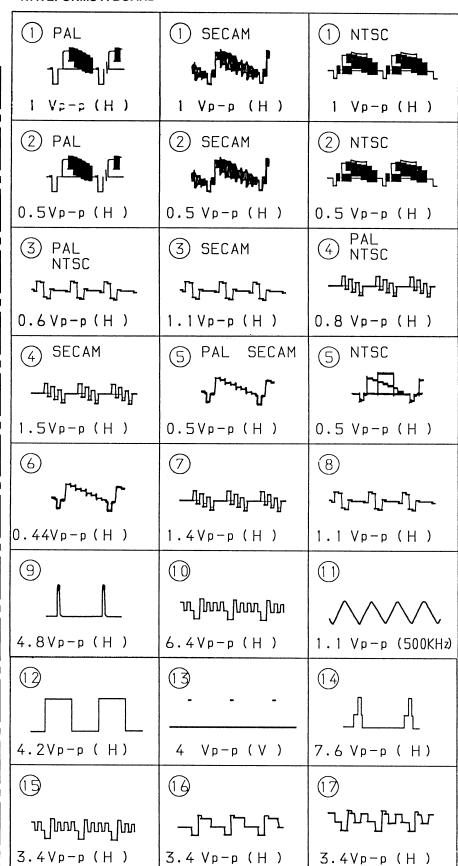
> L310 0.45#H

8302 €AP202K

#304 MTZJ-5.6B PROTECT

AUĐIO AMP, AV SW RGB JUNGLE, Y/C PROCESSOR.

• WAVEFORMS A BOARD



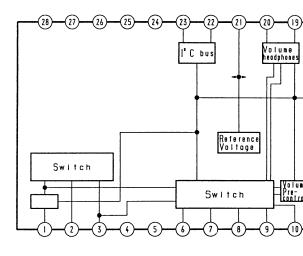
As to the voltage value shown by the mark % on the Schematic Diagram, see another list.

B-SS4265<AEP>-A..

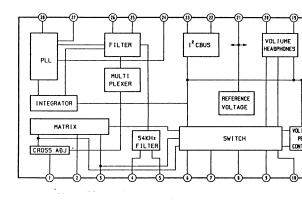
		PAL	SECAM	NTSC 3.58	NTSC 4.43
10301	8	5.0	4.6	5.0	5.0

KV-B2511D KV-B2511B KV-B2513E KV-B2512U KV-B2511A KV-B2511K C106 4.7/50V 10/50V 4.7/50V 4.7/50V C111 0.001/50V CN0101 20P 20P TDA6612 IC201 TDA6612 TDA6612 TDA6622 IFH-389 IFB101 IFH-389F IFH-389 IFH-395 TU101 UV-916H UV-916H UV-916H U-944C

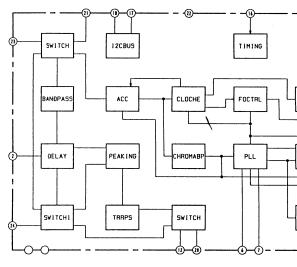
• A BOARD IC201 TDA6622 (KV-B2512U only)



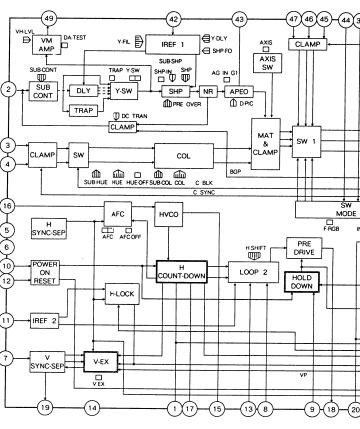
• A BOARD IC201 TDA6612



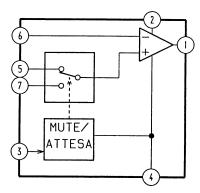
• A BOARD IC301 TDA9145



• A BOARD IC304 CXA1587S

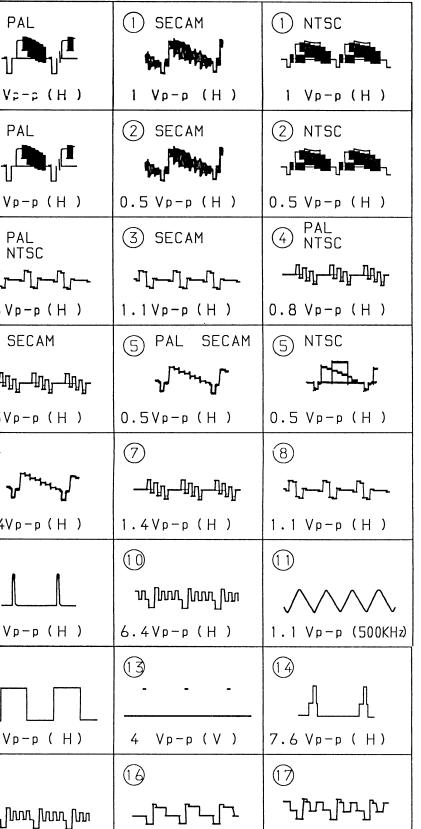


· A BOARD IC251 TDA2052



• A BOARD IC402 TE

EFORMS A BOARD



the voltage value shown by the in the Schematic Diagram, nother list.

Vp-p (H)

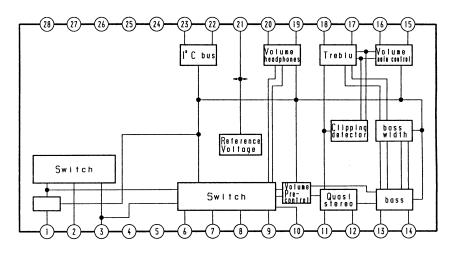
		PAL	SECAM	NTSC 3.58	NTSC 4.43
1	(8)	5.0	4.6	5.0	5.0

3.4 Vp-p (H)

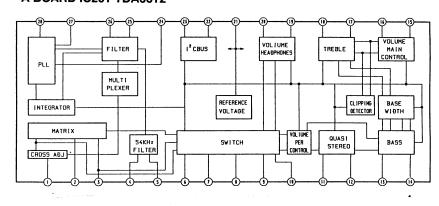
3.4Vp-p (H)

	KV-B2511D KV-B2511A KV-B2511K	KV-B2511B	KV-B2513E	KV-B2512U
6	4.7/50V	10/50V	4.7/50V	4.7/50V
1	-	0.001/50V	-	-
01	_	_	20P	20P
1	TDA6612	TDA6612	TDA6612	TDA6622
D1	IFH-389	IFH-389F	IFH-389	IFH-395
01	UV-916H	UV-916H	UV-916H	U-944C

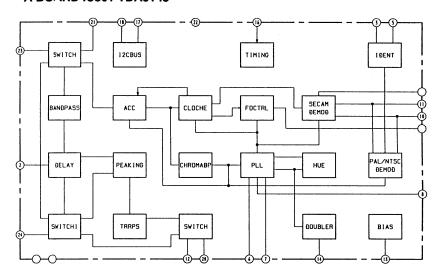
• A BOARD IC201 TDA6622 (KV-B2512U only)



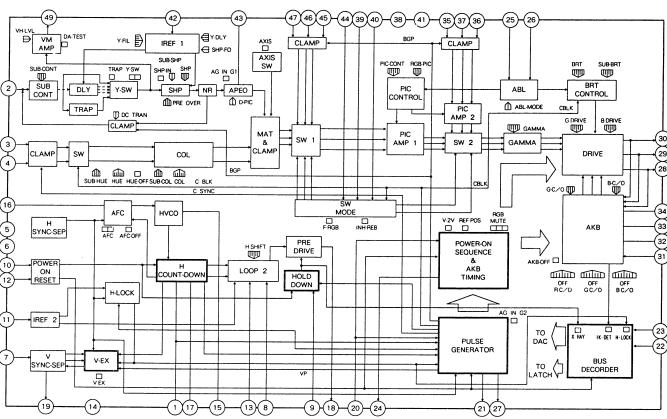
• A BOARD IC201 TDA6612



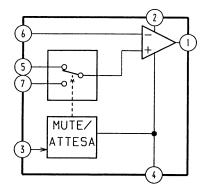
• A BOARD IC301 TDA9145



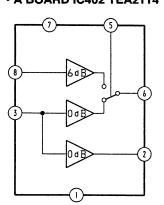
• A BOARD IC304 CXA1587S



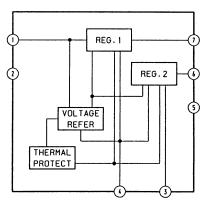
• A BOARD IC251 TDA2052



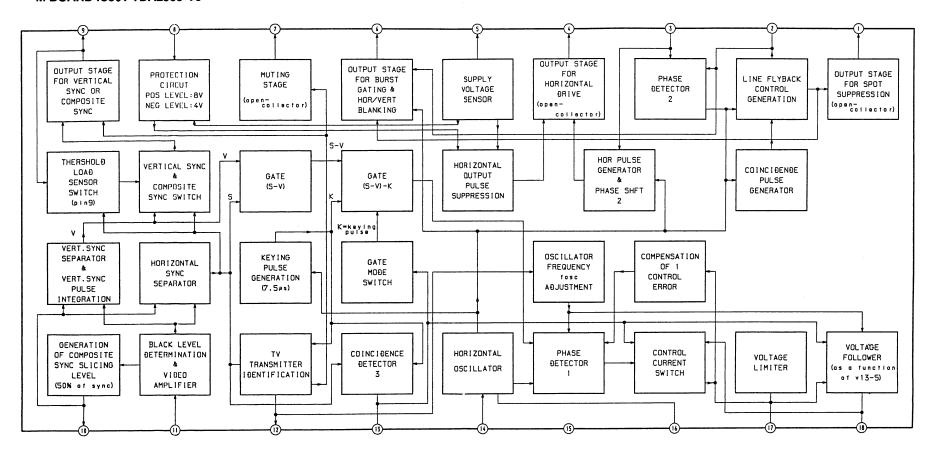
• A BOARD IC402 TEA2114



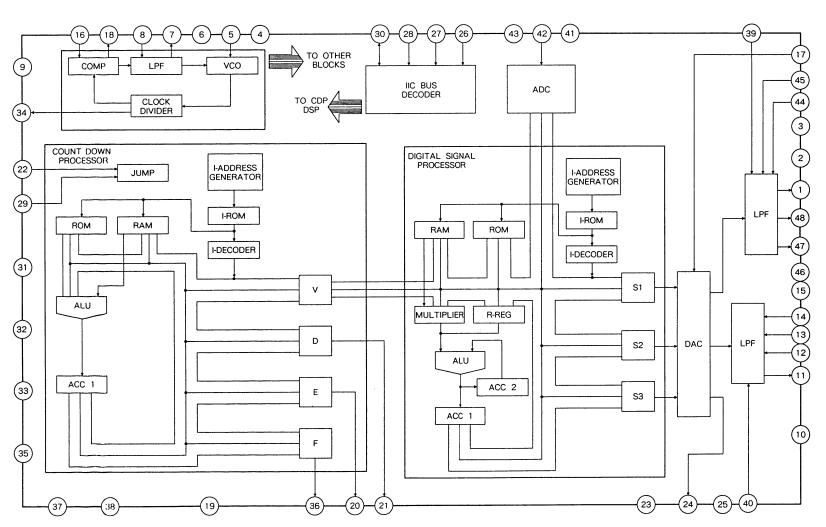
• A BOARD IC681 TDA8134

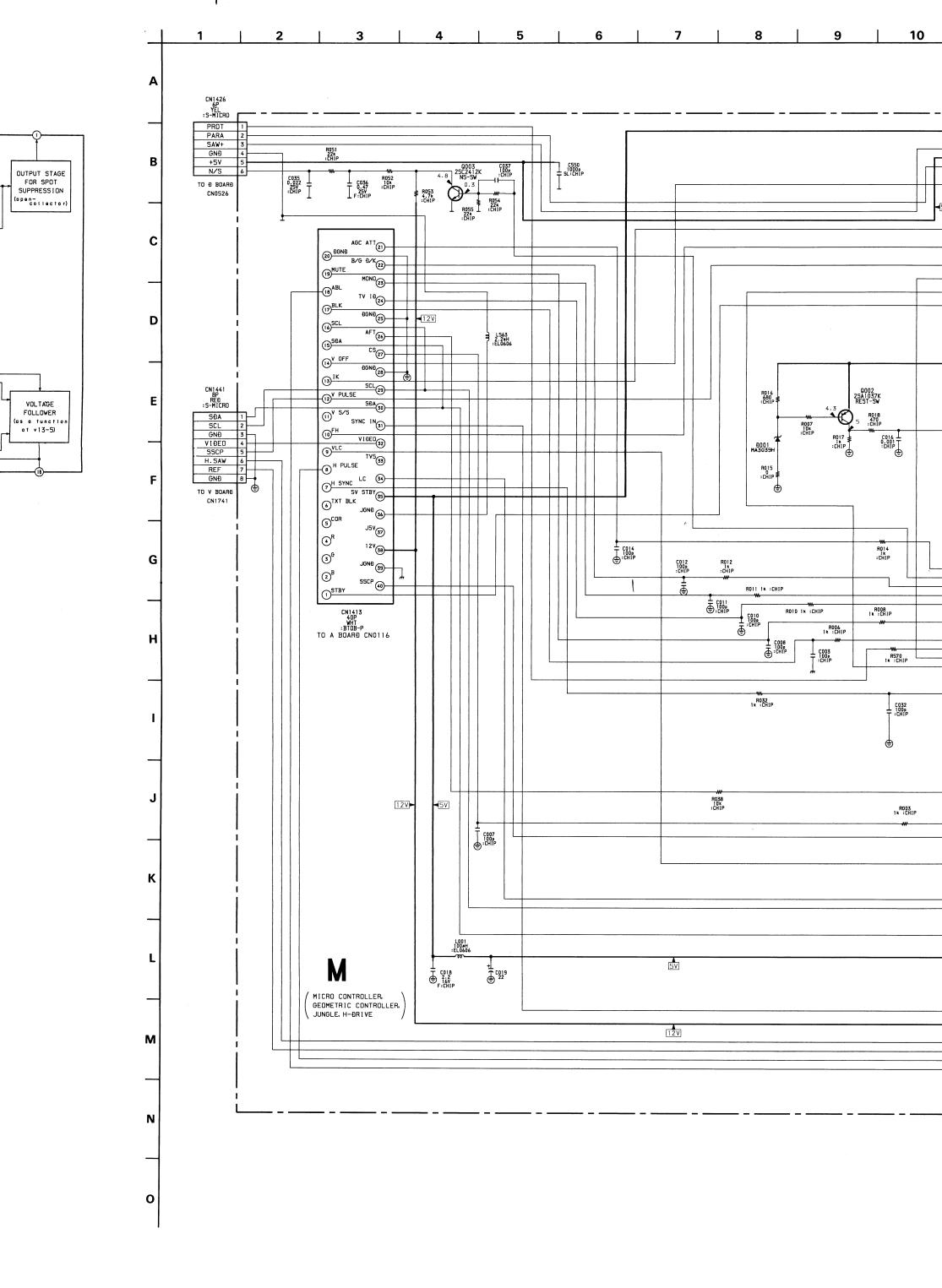


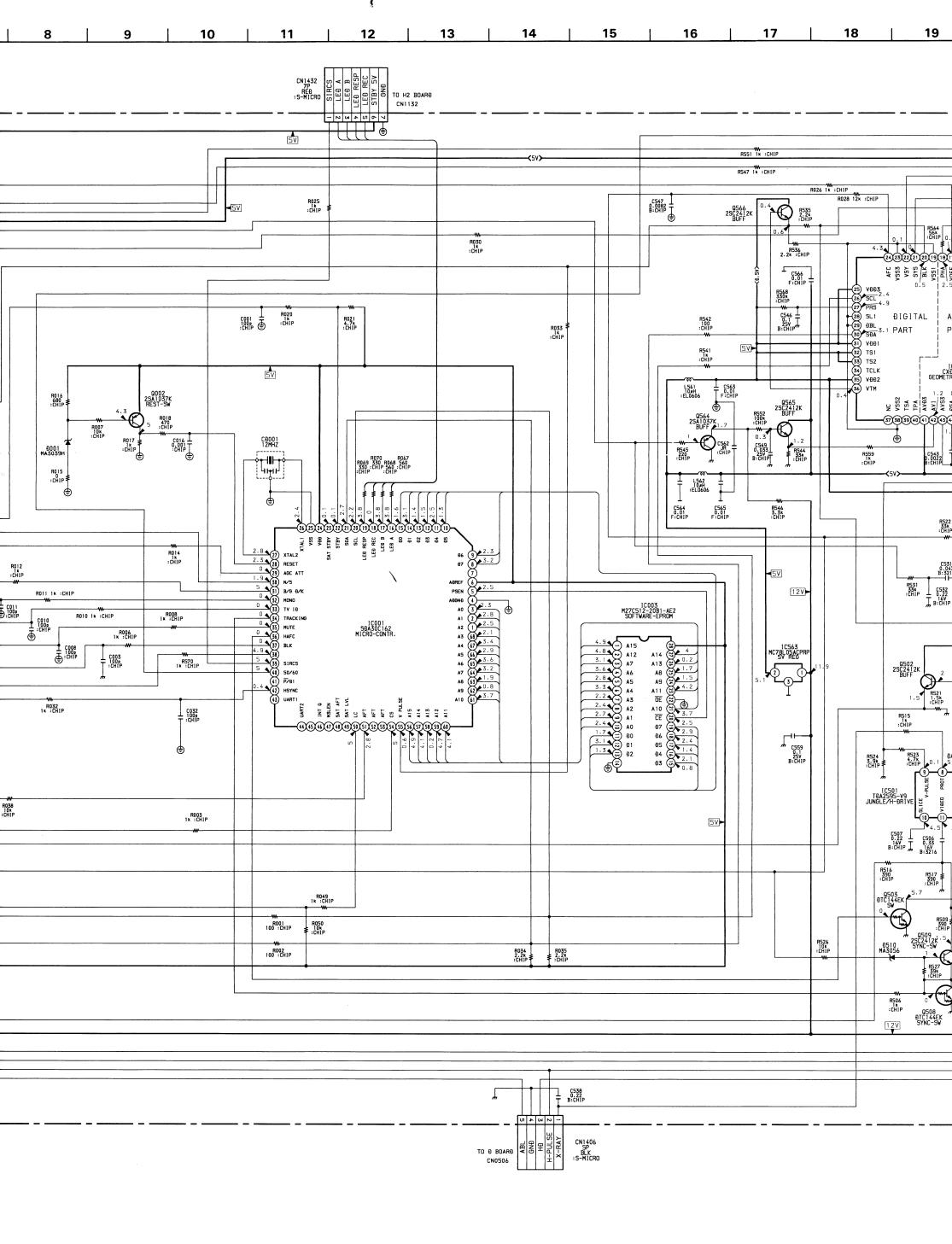
• M BOARD IC501 TDA2595-V9

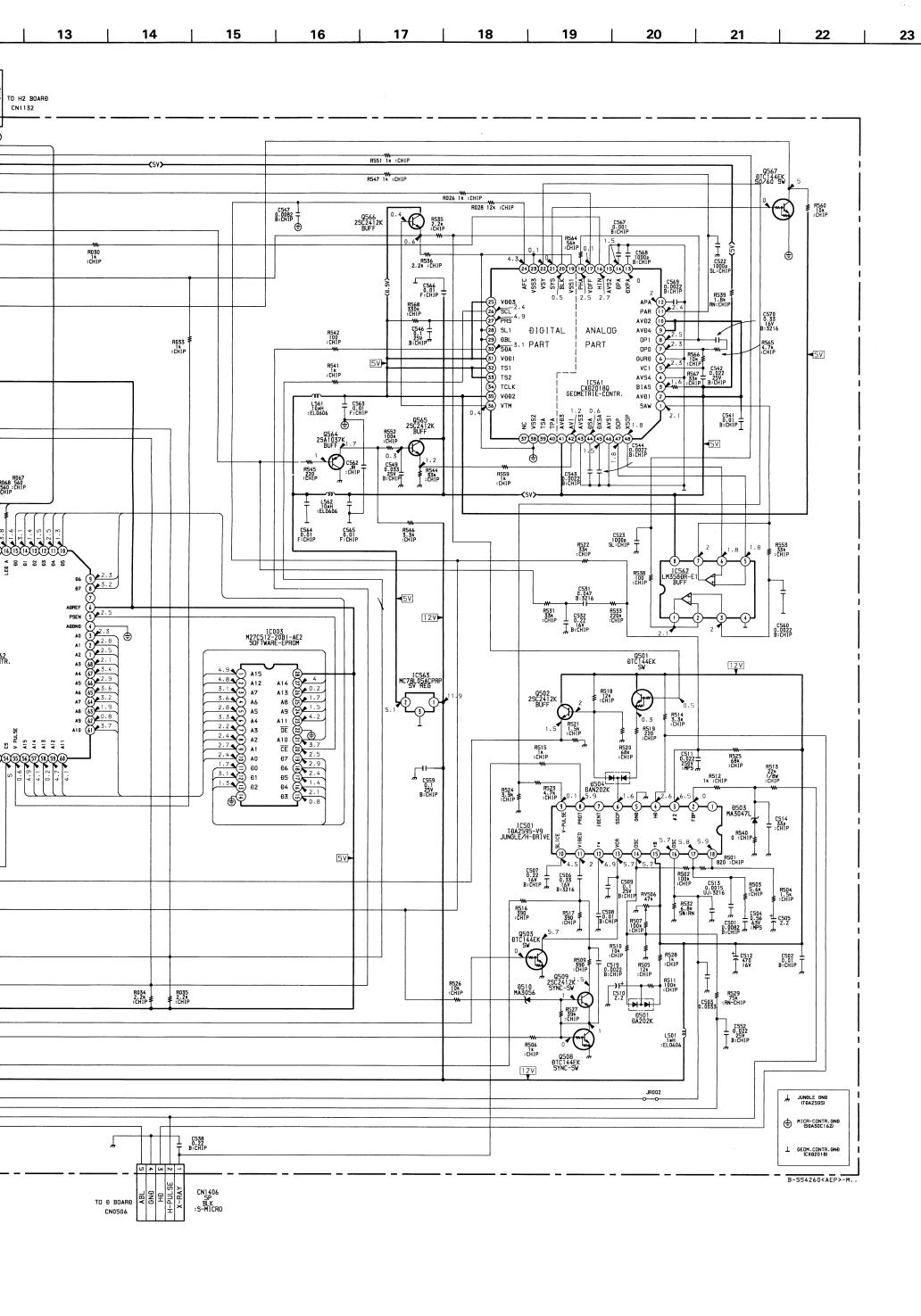


• M BOARD IC561 CXD2018Q

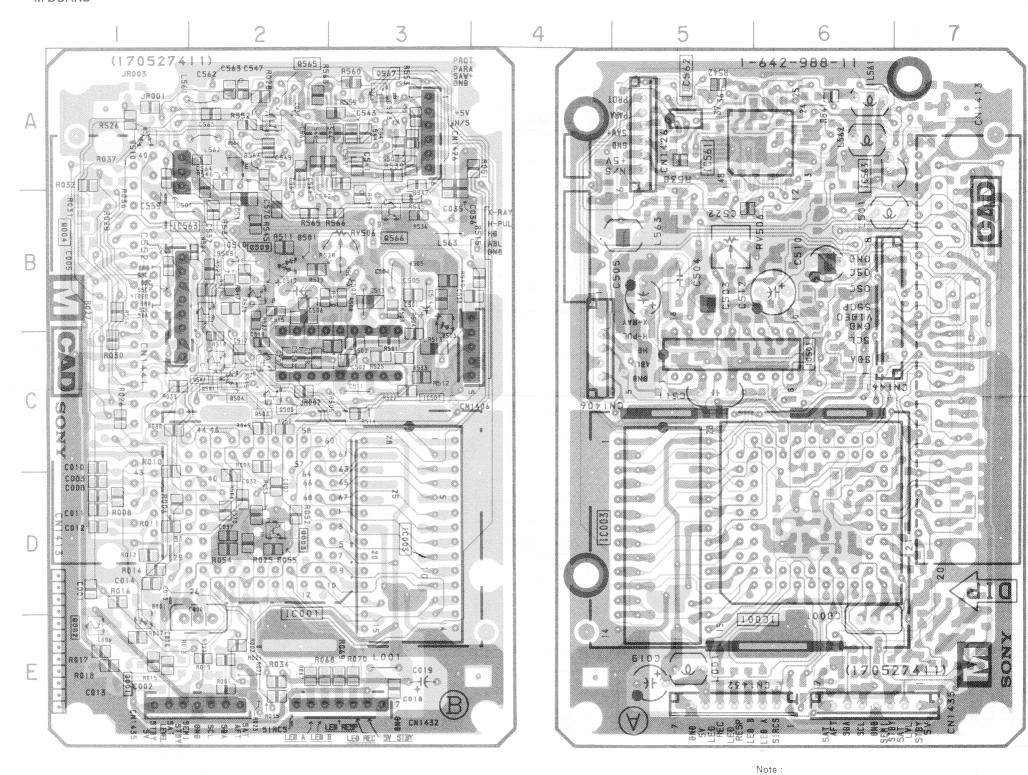










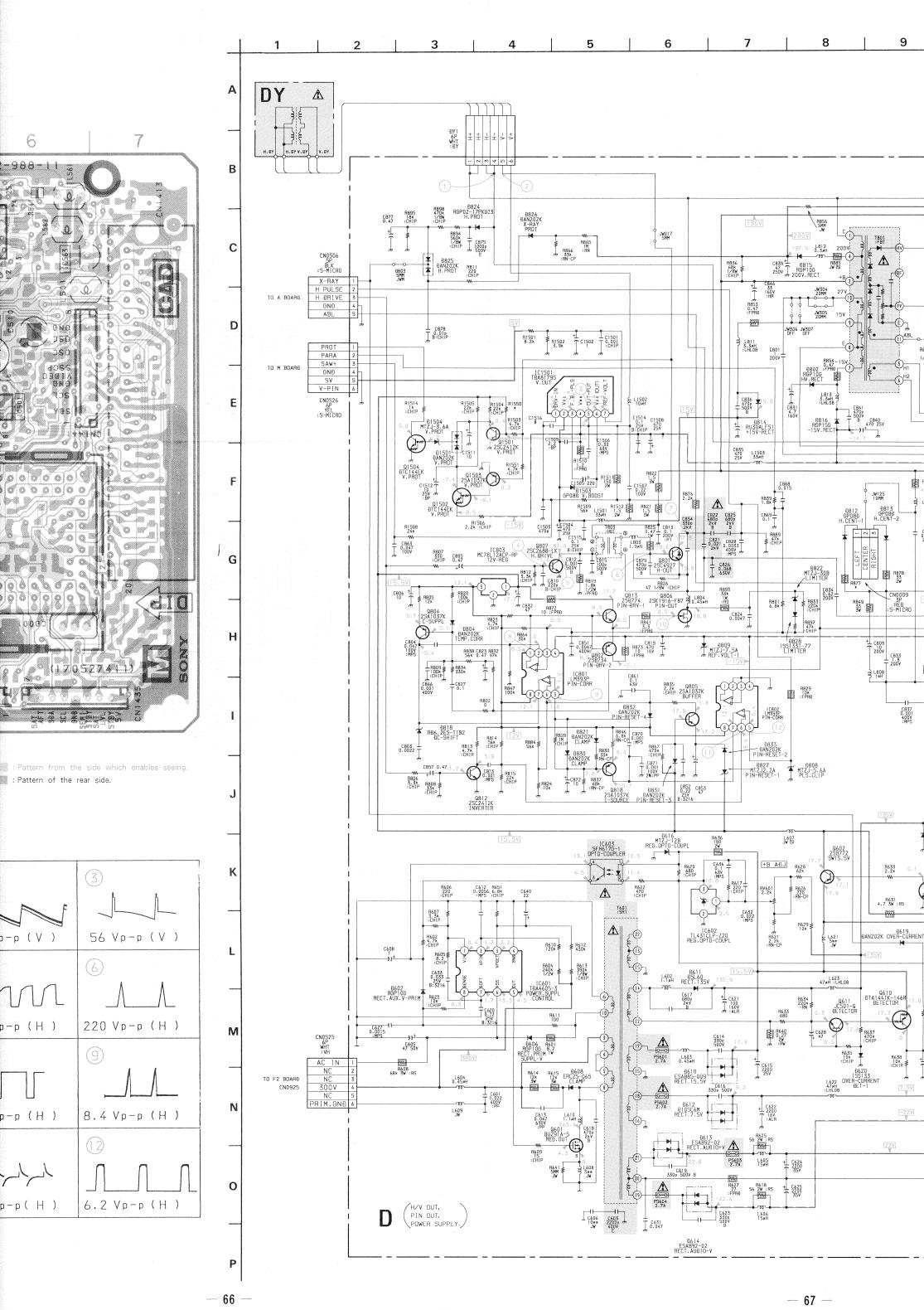


IC		DIC	DE
IC003 I IC501 I IC561 I IC562 I	D - 2 D - 3 C - 3 A - 6 A - 5 A - 1	D001 D501 D503 D504 D510	E - 1 B - 1 B - 3 C - 2 A - 1
TRANSISTOR		VARIABLE RESISTOR	
Q003 Q501 Q502 Q503 Q508 Q509 Q564 Q565 Q566	D - 2 C - 2 B - 2 C - 2 B - 2 B - 2 A - 2 B - 3 A - 3	RV506	B - 3

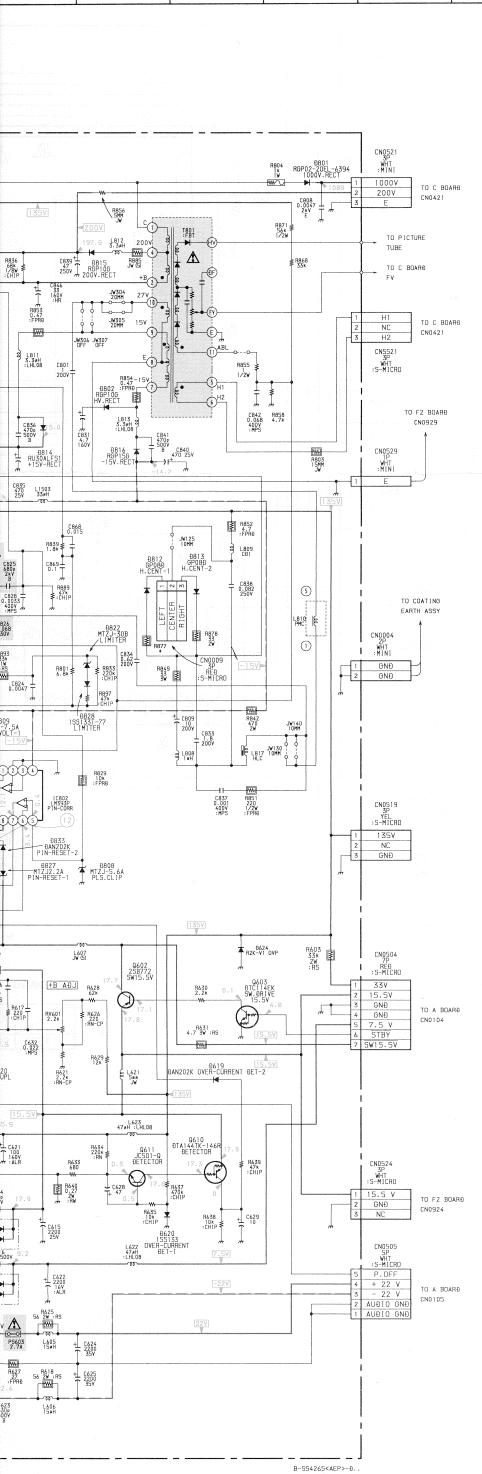
• WAVEFORMS D BOARD		
	2	3
 250Vp-p (H)	3 Vp-p (V)	56 Vp-p (V)
4	(5)	6
	M	
4.2 Vp-p(H)	175 Vp-p (H)	220 Vp-p (H)
7	8	9
940 Vp-p (H)	19 Vp-p (H)	8.4 Vp-p (H)
10		12
	المرامام	
19 Vp-p(H)	17.5Vp-p(H)	6.2 Vp-p (H)

· Pattern from the side which enables seeing.

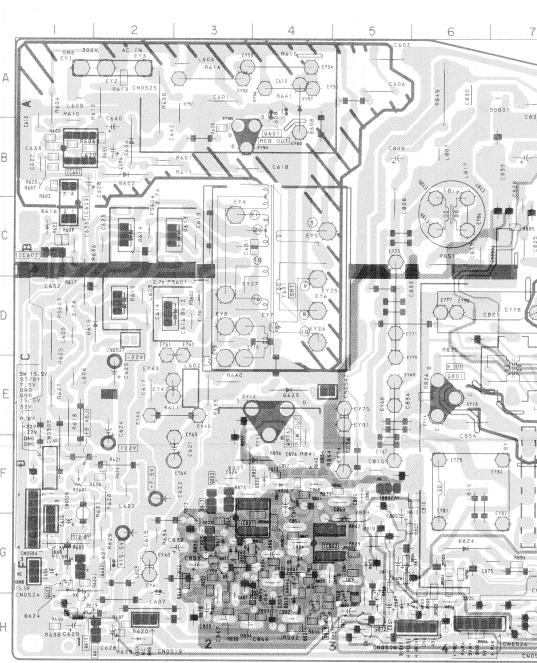
• Pattern of the rear side.



7 | 8 | 9 | 10 | 11 | 12



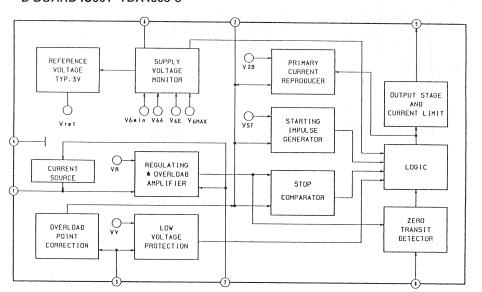
- D BOARD -



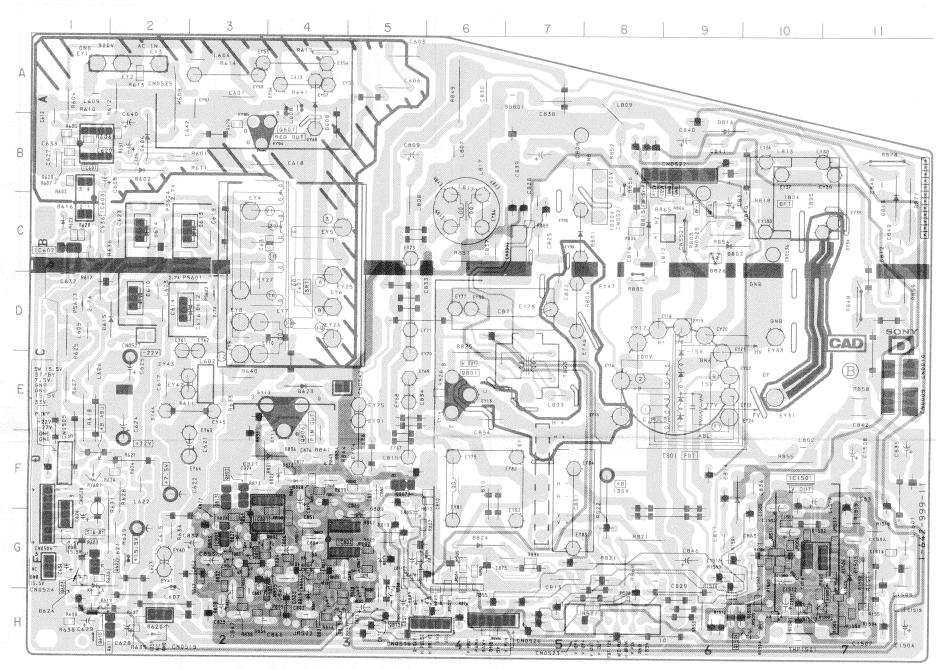
Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

D BOARD IC601 TDA4605-3



- D BOARD -

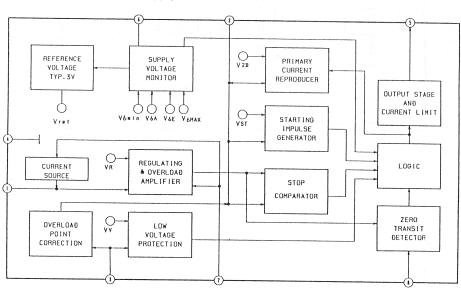


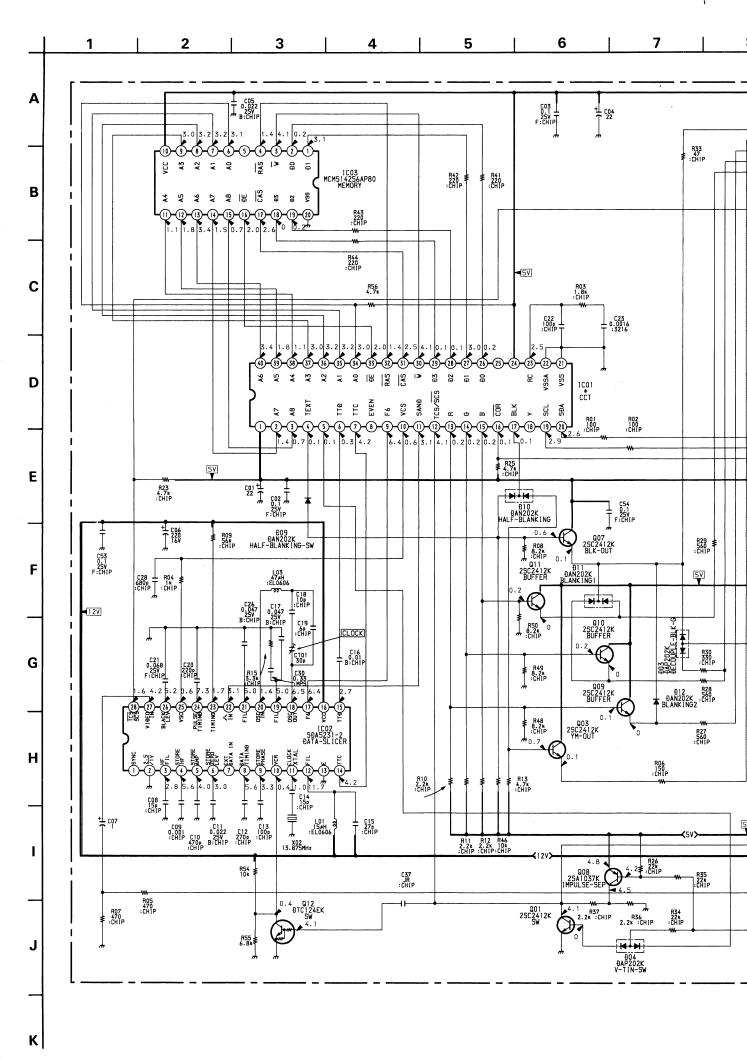
Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

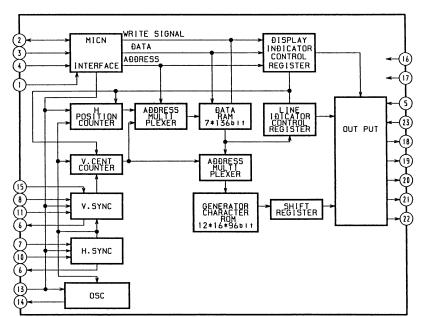
1	С	DI	ODE	D828 D830	F – 4 H – 5
IC601 IC602 IC603 IC801 IC802 IC803 IC1501	B-1 C-1 C-1 G-3 G-4 G-3 G-10	D602 D606 D608 D610 D611 D612 D613 D614 D616	B-2 B-2 A-4 D-2 E-2 D-3 C-3 C-2 C-1 H-1	D831 D832 D833 D1501 D1503 D1504	G - 3 G - 4 G - 3 H - 10 G - 11 H - 10
TRANS	SISTOR B-3	D620 D624	H - 2 G - 1		ABLE STOR
Q602 Q603 Q610 Q611 Q801 Q802 Q804 Q805 Q806 Q807 Q812 Q813 Q818 Q1501 Q1502 Q1503 Q1504	G-1 G-1 H-1 H-2 E-6 F-3 G-4 F-5 H-5 F-3 H-10 G-11 H-11 H-10	D801 D802 D803 D804 D808 D809 D812 D813 D814 D815 D816 D818 D821 D822 D824 D825 D826 D827	C-7 C-9 H-5 G-5 G-5 C-11 F-9 C-8 B-9 H-4 F-4 G-6 C-9 G-3	RV601	

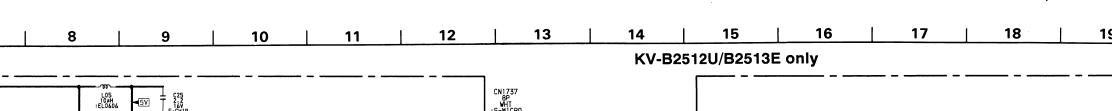
D BOARD IC601 TDA4605-3

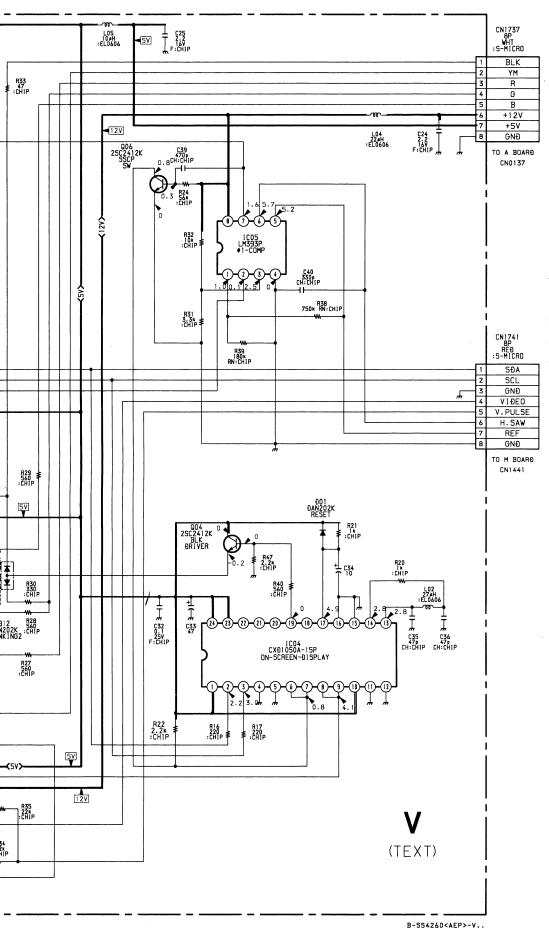


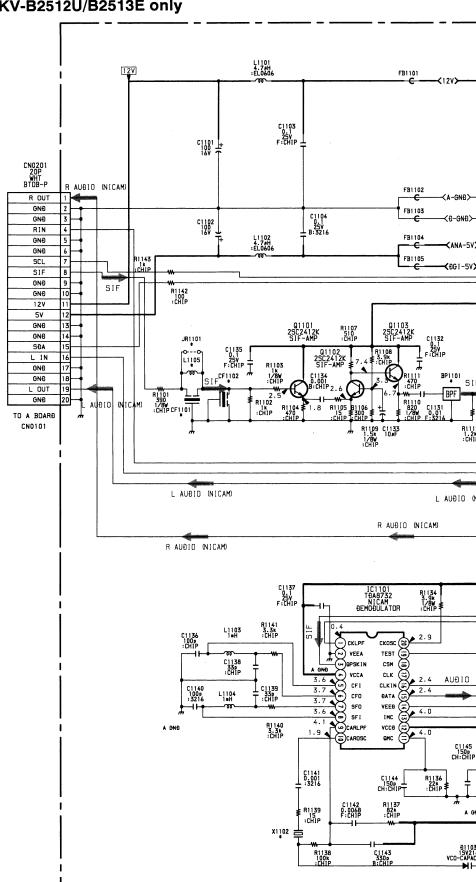


· V BOARD IC04 CXD1050A-15P





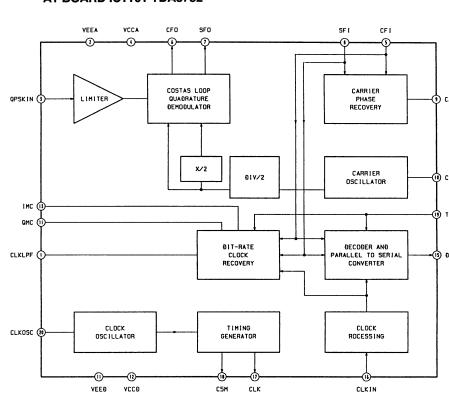


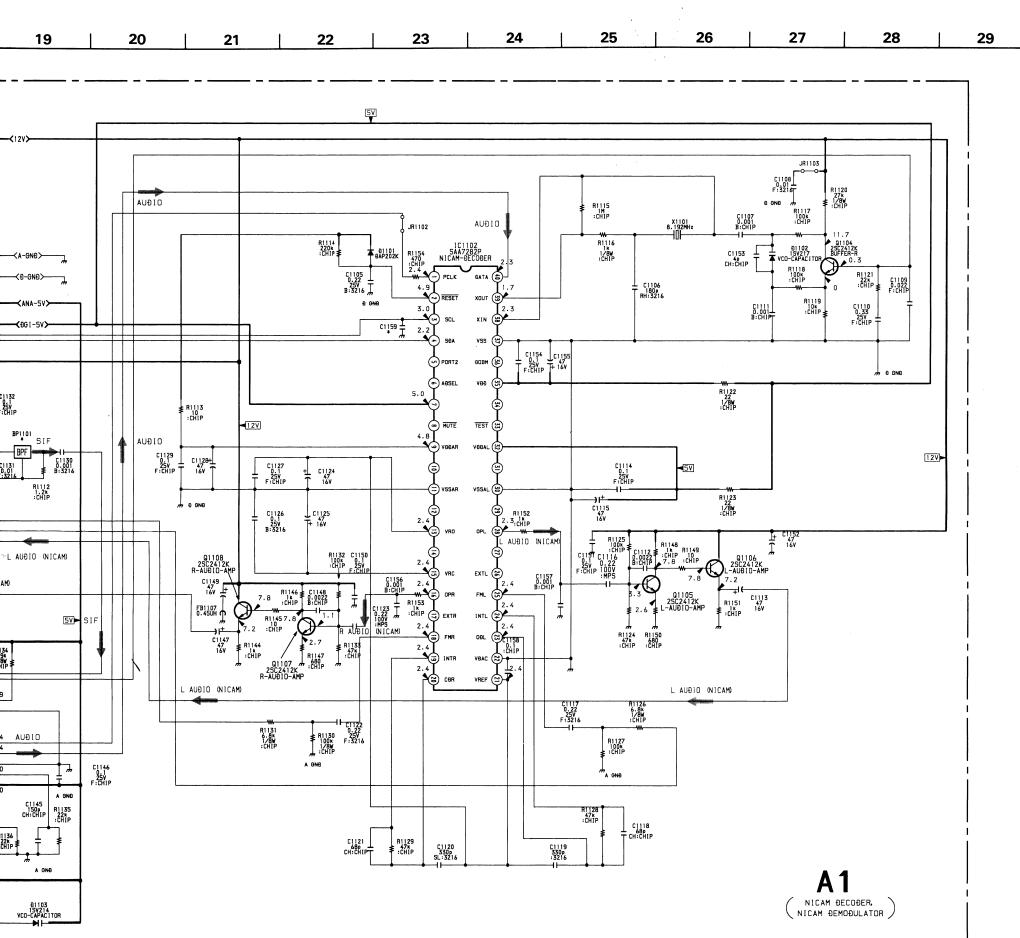


· V BOARD

	KV-B2911K	OTHERS
ICO1	SĐA5248C2	SĐA5248C1

• A1 BOARD IC1101 TDA8732





• A1 BOARD (KV-B2512U/B2513E only)

	KV-B2513E	KV-B2512U
BP1101	5.850MHz	6.552MHz
C1159	_	47P : CHIP
CF1101		6.0MHz
CF1102	5.5MHz	-
JR1101	0 : CHIP	_
L1105	_	15 μ Η
X1102	11.700MHz	13.104MHz

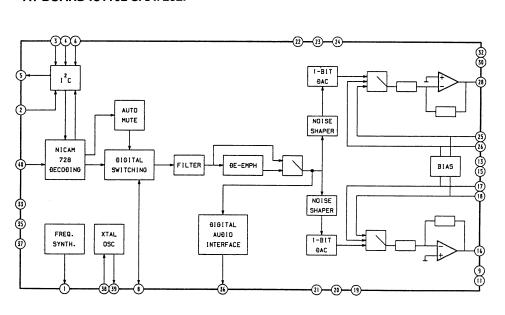
B-SS4260<AEP>-A1.

• A1 BOARD IC1102 SAA7282P

· CAROSC

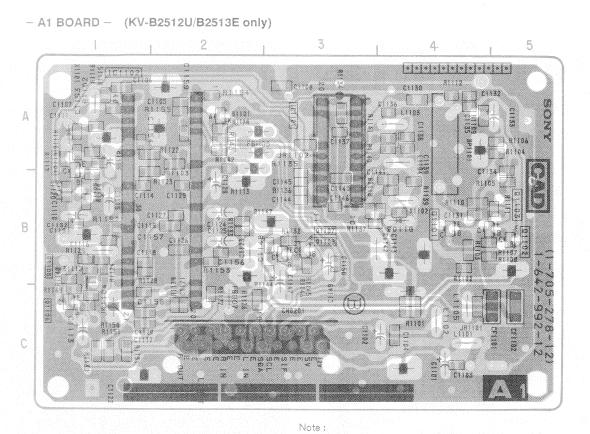
TEST

(15) ĐẠTA







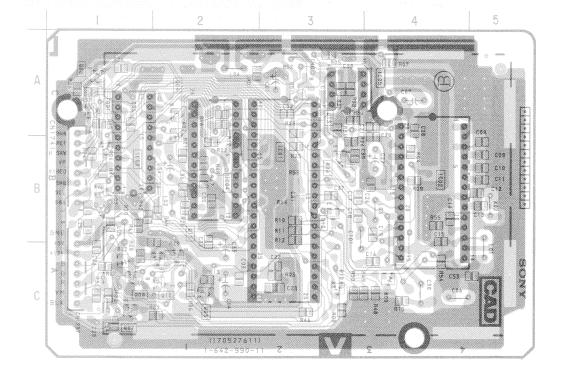


· Pattern from the side which enables seeing.

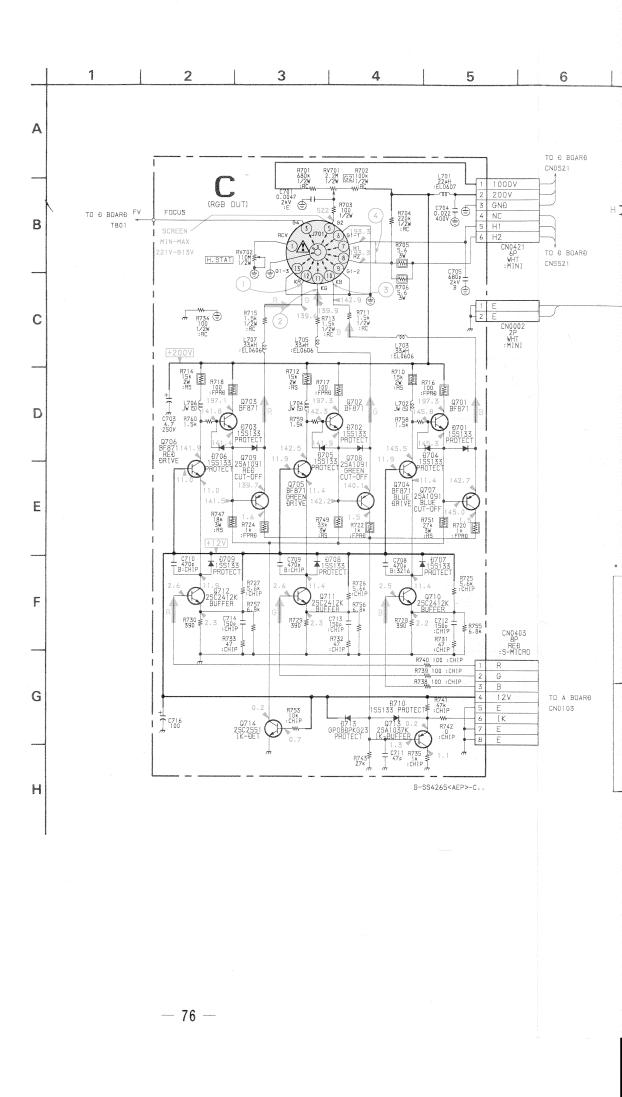
• Pattern of the rear side.

-	IC				
Survey management and an address of a constraint and a second	IC1101 IC1102	A - 3 B - 2			
OPPORTUNITION OF THE PROPERTY	TRAN	SISTOR			
	Q1101 Q1102 Q1103 Q1104 Q1105 Q1106 Q1107 Q1108	B - 4 B - 5 B - 5 A - 1 B - 1 C - 1 B - 3 B - 3			
CHARLES AND ADDRESS OF THE PERSON NAMED IN					
PROPERTY AND PERSONS ASSESSED.	DIC	DDE			
colinario de la companya de la companya de la companya de la colonia de	D1101 D1102 D1103	A - 2 A - 1 B - 4			

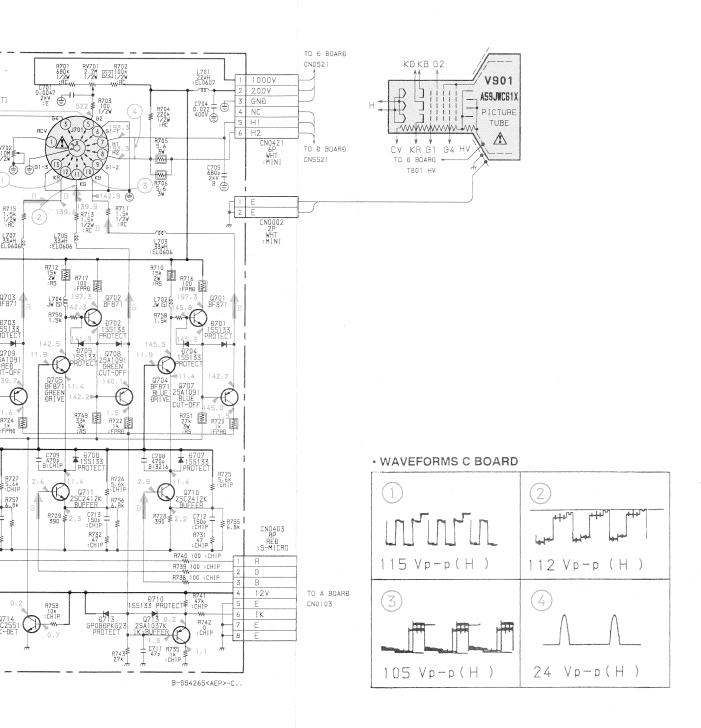
- V BOARD -

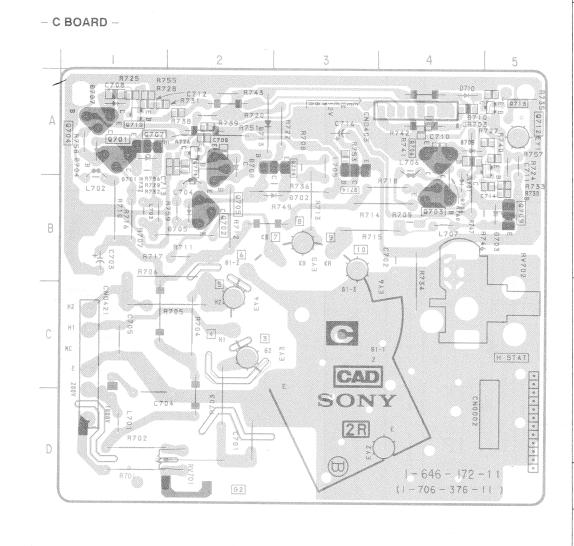


	IC		A - 1 C - 1
IC01	B - 3	Q010	C - 2
IC02	B - 4	Q011	C - 2
1003	B - 1	Q012	C – 3
IC04	B - 2		
IC05 A - 4		DIODE	
**************************************		D01	B - 2
TRAN	SISTOR	D03 D04	B - 1 B - 1
Q01	A - 1	D09	C - 4
003	C - 2	D010	C - 3
004	B - 2	D011	C - 2
006	B - 3	D012	C - 1
4.00	2 0		



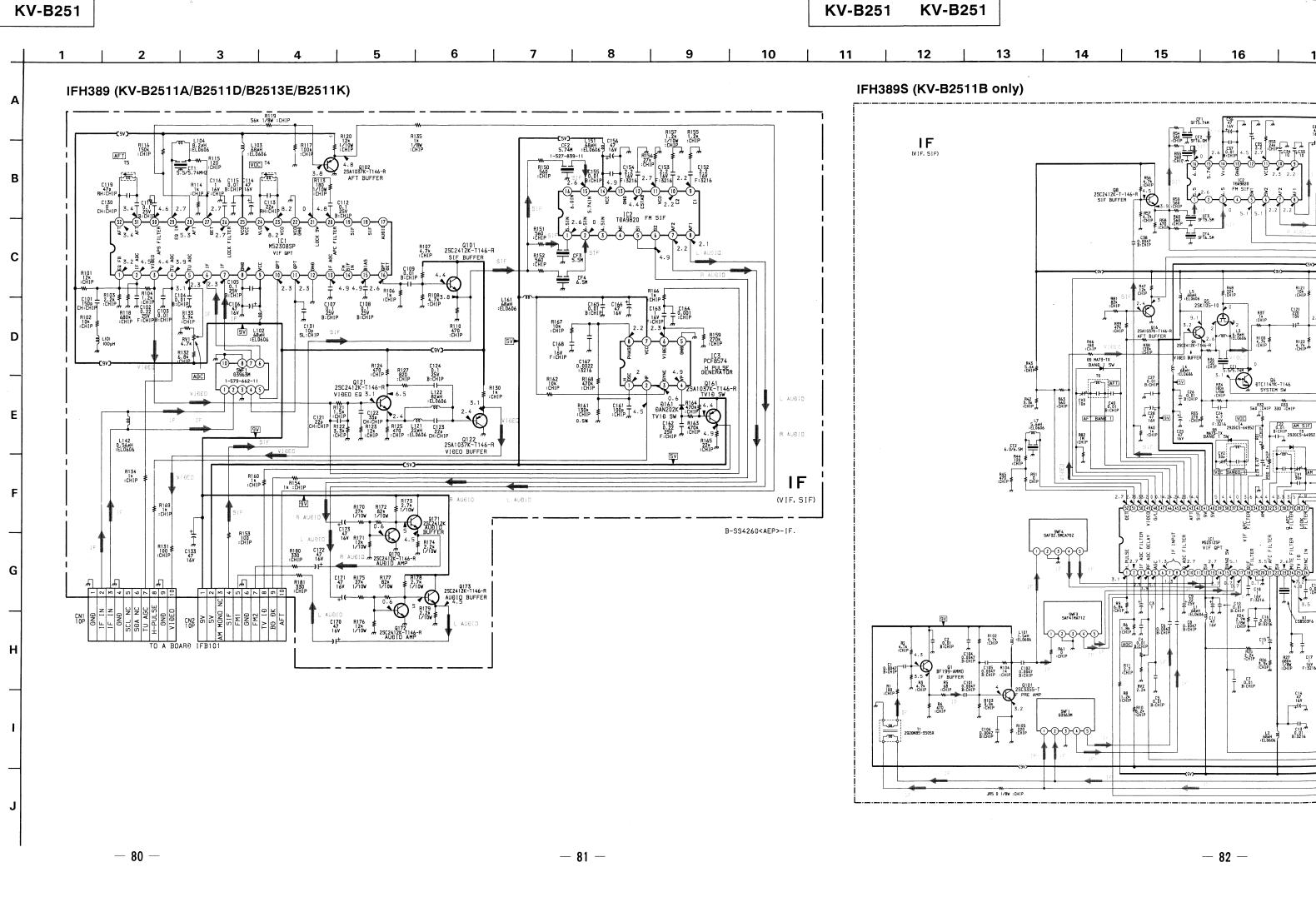


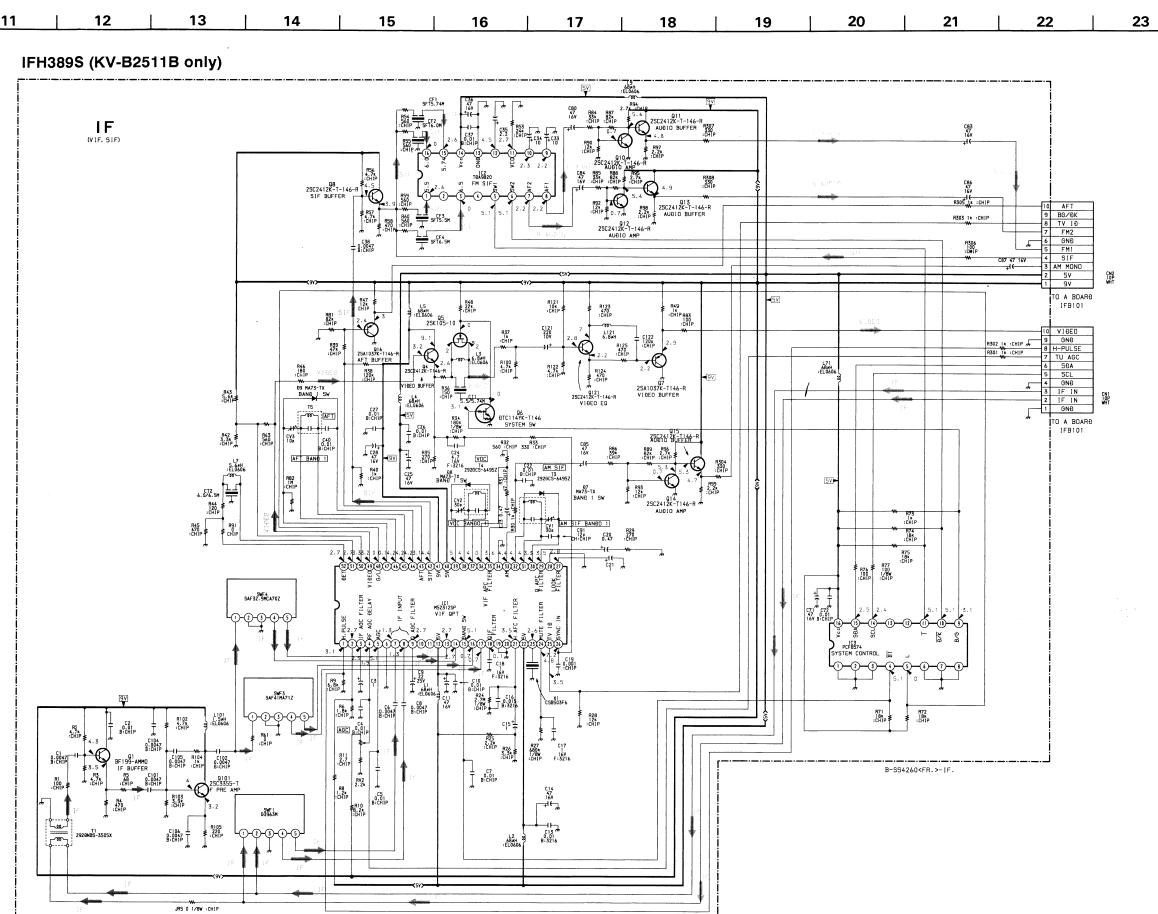




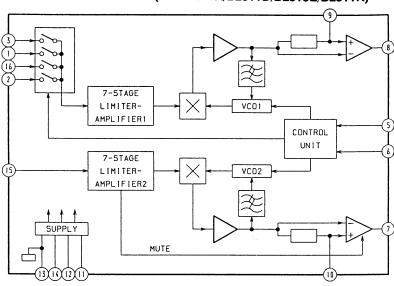
TRANSISTOR	
Q701 A - 1 Q702 B - 2 Q703 B - 4 Q704 A - 1 Q705 B - 2 Q706 A - 4 Q707 A - 1 Q708 A - 3 Q709 B - 5 Q710 A - 1 Q711 A - 2 Q712 A - 5 Q713 A - 5 Q714 A - 3	
D701 A - 1 D702 B - 3 D703 B - 5 D704 A - 1 D705 B - 2 D706 B - 4 D707 A - 1 D708 A - 2 D709 A - 4 D710 A - 4 D713 A - 2	
VARIABLE RESISTOR	
RV701 D - 2 RV702 C - 4	

— 78 —

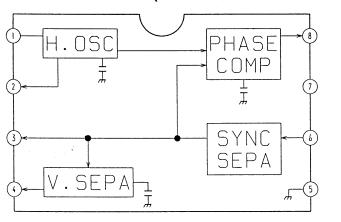




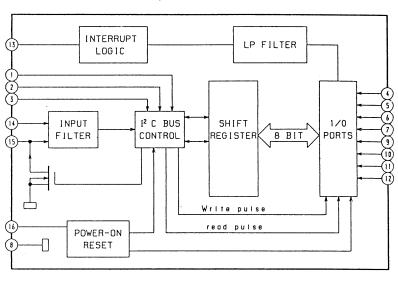
IF BOARD IC2 TDA9820 (KV-B2511A/B2511D/B2513E/B2511K)



• IF BOARD IC3 BA7046 (KV-B2511A/B2511D/B2513E/B2511K)



• IF BOARD IC3 PCF8574 (KV-B2511B only)



R303 1* :CHIP

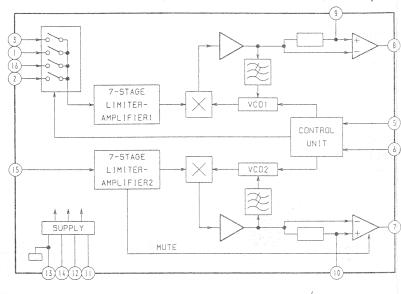
R71 18k :CHIP ₹

B-SS4260<FR.>-IF.

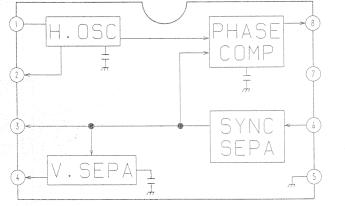
TO A BOARÐ IFB101

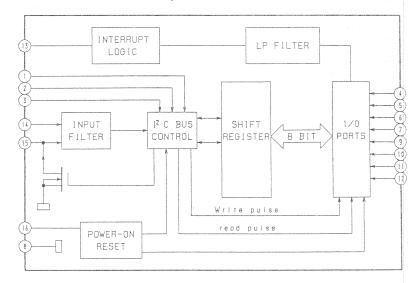
TO A BOARÐ IFB101



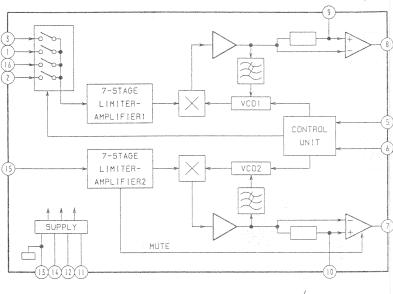


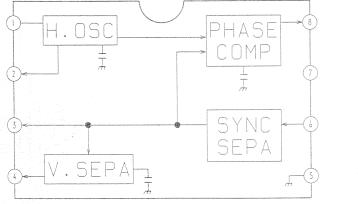
• IF BOARD IC3 BA7046 (KV-B2511A/B2511D/B2513E/B2511K)







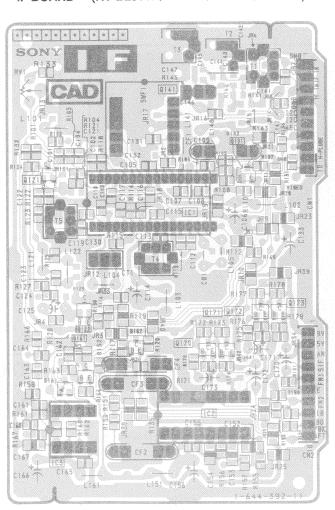




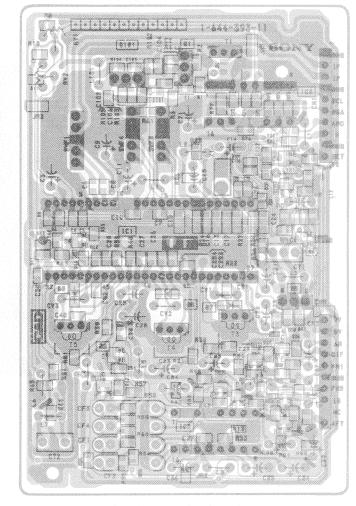
• IF BOARD IC3 PCF8574 (KV-B2511B only)



- IF BOARD - (KV-B2511A/B2511D/B2513E/B2511K)



- IF BOARD - (KV-B2511B only)



- · Pattern from the side which enables seeing.
- · : Pattern of the rear side.

7

8

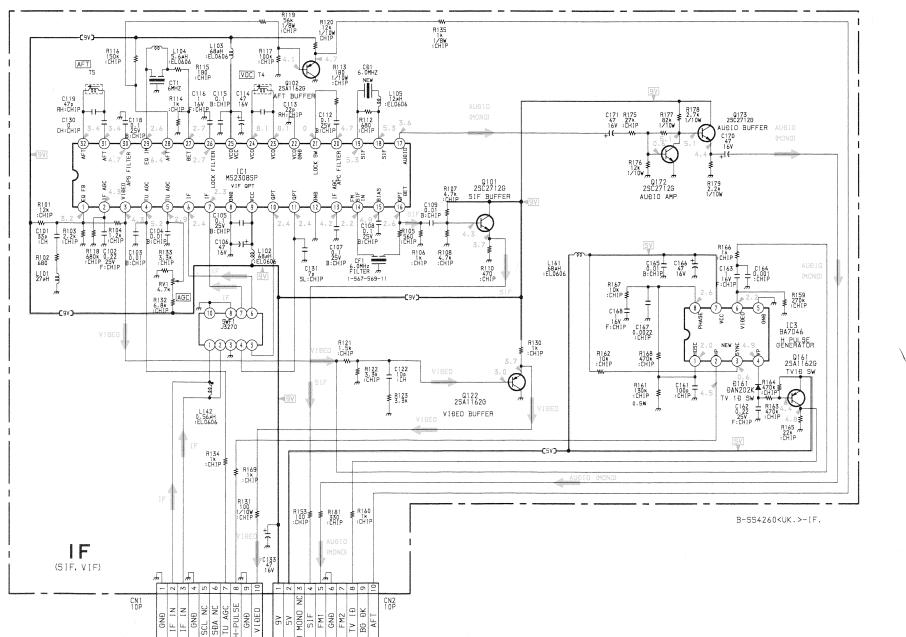
9

10

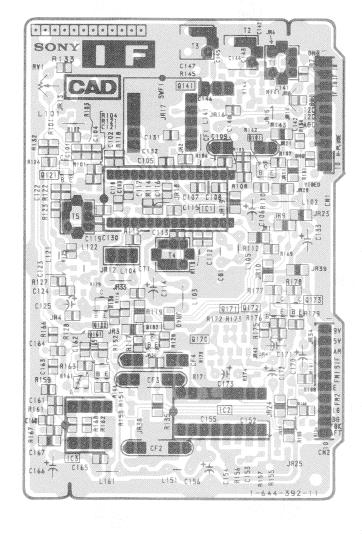


D

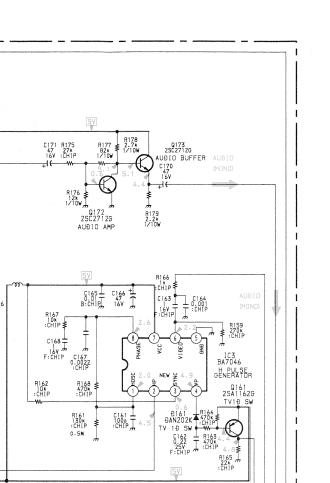
G



- IF BOARD - (KV-B2512U only)



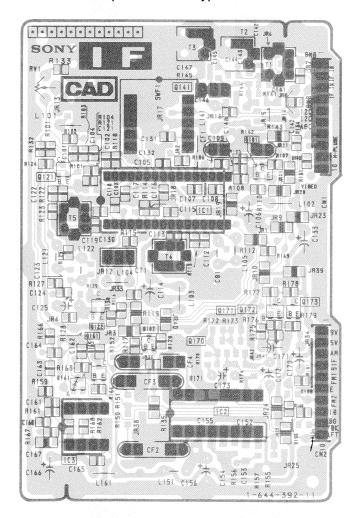
7 | 8 | 9 | 10



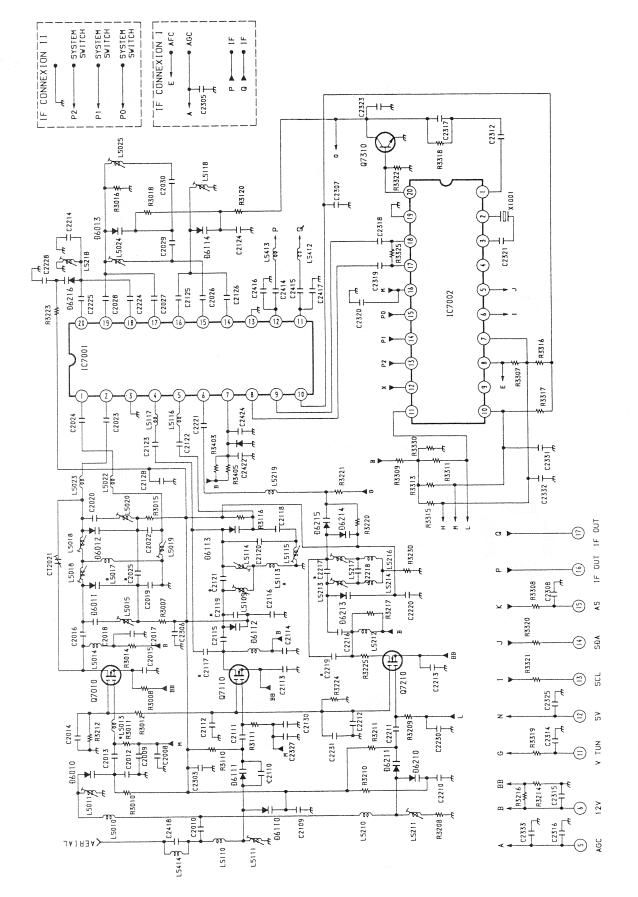
B-SS4260<UK.>-IF.



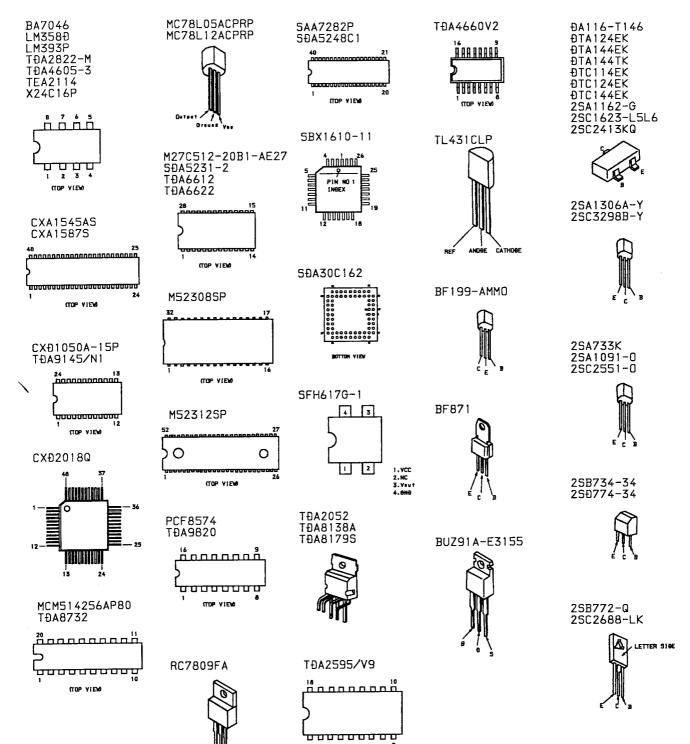
- IF BOARD - (KV-B2512U only)



5-5. SCHEMATIC DIAGRAM OF TUNER A BOARD TU101 UV916H



5-6. SEMICONDUCTORS



Ð105C6

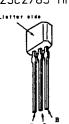
Đ4SB60

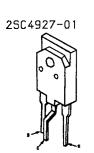
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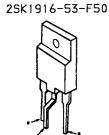
CLOS ATEM

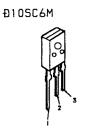
KV-

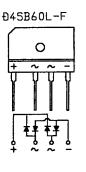
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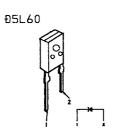






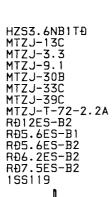


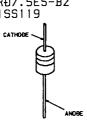


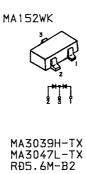


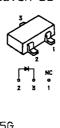




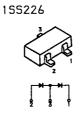


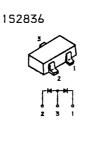


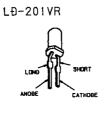












SECTION 6 EXPLODED VIEWS

NOTE:

- · Items with no part number and no des-
- cription are not stocked because they are seldom required for routine service.

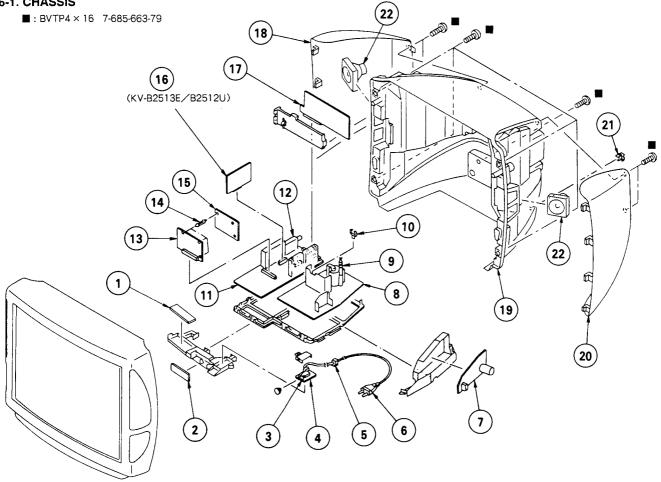
 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

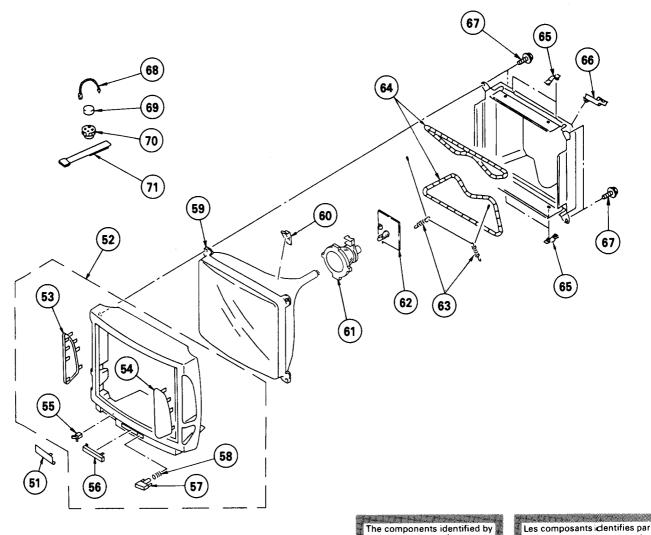
sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



REF.NO. PA	ART NO.	DESCRIPTION	REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
2 *1- 3 <u>1</u> 1- 4 *A-	-643-004-11 -642-997-11 -571-433-12 -1624-013-A -389-201-11	H2 BOARD SWITCH, PUSH (AC POWER) F1 BOARD, COMPLETE		12 13 14	1-693-185-11 1-693-184-11 *A-1635-001-A *4-385-948-01	TUNER (UV916H) (KV-B2511A,B2511B,B2511 TUNER (U944C) (KV-B2512U M BOARD, COMPLETE HOLDER, PCB	D,B2511K,B2513E))
<u> </u>	-590-762-11 -1624-014-A	CORD, POWER (WITH NOISE FILTER) (KV-B2511A, B2511B, B2511D, B2511K CORD, POWER (WITH PLUG) (KV-B251 F2 BOARD, COMPLETE D BOARD, COMPLETE		16	*A-1630-130-A *A-1630-126-A *A-1651-040-A	V BOARD, COMPLETE A1 BOARD, COMPLETE (KV-B; A1 BOARD, COMPLETE (KV-B; J BOARD, COMPLETE COVER (LEFT), SPEAKER	2512U) 2513E)
10 *3- 11 *A- *A- *A-	-646-071-00 -1632-106-A -1632-113-A -1632-117-A	TRANSFORMER ASSY, FLYBACK (UX-26 HOLDER, WIRE A BOARD, COMPLETE (KV-B2511A, B2511D A BOARD, COMPLETE (KV-B2512U) A BOARD, COMPLETE (KV-B2513E)		19 20 21 22	4-039-260-01	COVER (RIGHT), SPEAKER HOLDER, AC CORD	

6-2. PICTURE TUBE



The components identified by shading and mark \triangle are critical for safety.
Replace only with part number

specified.

une trame et une marque A sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO	D. PART NO.	DESCRIPTION	REMARK
51 52	4-039-244-01 4-039-244-11 X-4030-924-1	DOOR (KV-B2511A, B2511B, B2511D, B25 DOOR (KV-B2512U, B2513E) CABINET ASSY (WITH BEZEL ASSY)	53~58	62	*A-1638-030-A		뾄 기반.
	X-4030-924-2	(KV-B2511A, B2511B, B2511D, B2511K CABINET ASSY (WITH BEZEL ASSY) (KV-	, B2513E) 53~58 -B2512U)	64	4-303-774-11 1 -402-746-21 *4-385-916-01	SPRING, GROUND WIRE COIL DEGAUSSING HOLDER (D)	
53 54 55 56	4-039-249-01 4-039-250-01 4-392-036-01 4-039-253-01	GRILLE (LEFT), SPEAKER GRILLE (RIGHT), SPEAKER CATCHER, PUSH WINDOW, ORNAMENTAL		66 67 68 69	*4-387-284-01 4-373-263-11	HOLDER, LÉAD SCREW (M), PT CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø	
57 58	4-039-248-01 4-329-112-00 8-733-231-05	BUTTON, POWER SPRING PICTURE TUBE (A59JWC61X)		70 71	1-452-094-00 X-4306-312-0	MAGNET, ROTATABLE DISK; 15M€ Ø PERMALLOY ASSY, CONVERGENCE	

SECTION 7 ELECTRICAL PARTS LIST

F1 F2 A1

NOTE:

The components identified by shading and mark $\stackrel{\triangle}{\mathbb{A}}$ are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μF, PF : μμF

• MMH : mH, UH : μΗ

RESISTORS

- · All resistors are in ohms
- F : nonflammable

REF.NO. PART NO.

DESCRIPTION

REMARK | REF. NO. PART NO.

DESCRIPTION

REMARK

*A-1624-013-A F1 BOARD, COMPLETE

1-533-230-11 HOLDER, FUSE

<CONNECTOR>

CN0003A1-580-844-11 PIN, CONNECTOR (POWER) CN0831A1-695-292-11 PIN, CONNECTOR (POWER)

<FUSE>

F651 ▲ 1-576-232-21 FUSE (H.B.C.) 5A/250V

<SWITCH>

S651 A 1-571-433-12 SWITCH, PUSH (AC POWER)

*A-1624-014-A F2 BOARD, COMPLETE

<CAPACITOR>

C662 🔥	1-136-519-11	RILM	0.47MF	20%	300V
	1-136-518-11	FILM	0.33MF	20%	300V
	1-164-246-61	CERAMIC	0.0022MF	20%	400V
	1-124-120-11	ELECT	220MF	20%	25V
	1-124-916-11	ELECT	22MF	20%	50V
C673 ▲	1-161-964-91 1-161-964-91 1-125-318-00	CERAMIC CERAMIC ELECT(BL	0.0047MF	20%	250V 250V 400V

<CONNECTOR>

CN0005*1-508-765-00	PIN,	CONNECTOR	(5MM PITCH) 3P
CN0007*1-508-786-00	PIN,	CONNECTOR	(5MM PITCH) 2P
CN0924*1-568-878-51	PIN.	CONNECTOR	3P
CN0925*1-695-294-11	PIN.	CONNECTOR	(PC BOARD) 6P
CN0929*1-508-784-00			(5MM PITCH) 1P

CN0931A1-691-291-11 PIN, CONNECTOR (PC BOARD) 5P

<DIODE>

 D661
 8-719-911-19
 DIODE 1SS119

 D662
 8-719-400-18
 DIODE MA152WK

 D663
 8-719-510-63
 DIODE D4SB60L-F

 D664
 8-719-921-69
 DIODE MTZJ-9.1

<TRANSFORMER>

LF661 A 1-424-391-11 TRANSFORMER, LINE FILTER

LF662 ▲ 1-424-391-11 TRANSFORMER, LINE FILTER LF663 ▲ 1-421-862-11 LFT

<TRANSISTOR>

Q661 8-729-901-81 TRANSISTOR 2SC2412K-T-146-R

<RESISTOR>

R664 🔏	\$\langle 1-244-945-91 \$\langle 1-205-949-11 \$\langle 1-218-265-91 \$\langle 1-249-405-11 \$\langle 1-249-430-11\$	CARBON WIREWOUND METAL GLAZ CARBON CARBON		5% 5% 5% 5%	1/2W 10W 1W 1/4W 1/4W	F
R668 R669 <i>A</i> R671	1-249-434-11 1-205-949-11 1-249-415-11	CARBON WIREWOUND CARBON	27K 1.8 680	5% 5% 5%	1/4W 10W 1/4W	F

<RELAY>

RY661 ▲ 1-515-720-31 RELAY

 $\verb|<THERMISTOR>|$

THP661A 1-809-827-11 THERMISTOR, POSITIVE

*A-1630-130-A A1 BOARD, COMPLETE (KV-B2512U)

*A-1630-126-A A1 BOARD, COMPLETE (KV-B2513E)

<FILTER>

BP1101 1-236-238-11 FILTER, BAND PASS (KV-B2512U) 1-239-047-11 FILTER, BAND PASS (KV-B2513E) CF1101 1-409-333-00 TRAP, CERAMIC (6.0MHZ) (KV-B2512U) CF1102 1-404-134-00 TRAP, CERAMIC (5.5MHZ) (KV-B2513E)

<CAPACITOR>

C1101 C1102 C1103 C1104 C1105	1-126-101-11 1-126-101-11 1-163-038-00 1-163-077-00 1-163-081-00	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	20% 20% 10%	16V 16V 25V 25V 25V
C1106 C1107 C1108 C1109 C1110	1-163-187-00 1-163-009-11 1-163-059-00 1-163-033-00 1-164-336-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.01MF 0.022MF	5% 10%	50V 50V 50V 50V 25V

A1	
----	--

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C1112 1-164-161-11 C1113 1-124-477-11	CERAMIC CHIP O.1MF	10% 10% 20% 20%	50V 50V 16V 25V 16V	FB1103 FB1104 FB1105	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTO INDUCTO INDUCTO	R R R	
C1118 1-163-113-00	MYLAR 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 68PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF	10% 5% 5%	100V 25V 50V 50V 50V	101101	1-410-396-41 <1C> 8-759-511-88	IC TDA8732	INDUCIO	ĸ	
C1121 1-163-113-00 C1122 1-163-081-00 C1123 1-106-228-00 C1124 1-124-477-11	CERAMIC CHIP 68PF CERAMIC CHIP 0.22MF MYLAR 0.22MF ELECT 47MF ELECT 47MF		50V 25V 100V 16V 16V	L1101	8-759-073-17 <coi 1-408-405-00</coi 	L> Inductor	4.7UH		
C1127 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF	10% 20% 10%	25V 25V 16V 25V 50V	L1103 L1104	1-408-405-00 1-410-119-11 1-410-119-11 1-408-411-00	INDUCTOR INDUCTOR INDUCTOR	4.7UH 1MMH 1MMH 15UH		2512U)
	CERAMIC CHIP 0.01MF		50 V		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
C1132 1-163-038-00 C1133 1-124-907-11 C1134 1-163-009-11 C1135 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	20% 10%	25V 50V 50V 25V	Q1102 Q1103 Q1104	8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2412K- SC2412K- SC2412K-	T-146 T-146 T-146	-R R R
C1136 1-163-117-00 C1137 1-163-038-00 C1138 1-163-105-00 C1139 1-163-105-00 C1140 1-163-181-00	CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF CERAMIC CHIP 33PF CERAMIC CHIP 33PF CERAMIC CHIP 100PF	5% 5% 5%	50V 25V 50V 50V 50V	Q1107	8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2	SC2412K-	T-146	-R
C1141 1-163-205-00	CERAMIC CHIP 0.001MF	5%	50V 50V		<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
C1143 1-163-003-11 C1144 1-163-121-00	CERAMIC CHIP 0.0068MF CERAMIC CHIP 330PF CERAMIC CHIP 150PF	10% 5% 5%	50V 50V	}	1-216-296-00			5 %	1/8W (KV-B2513E)
C1145 1-163-121-00 C1146 1-163-038-00	CERAMIC CHIP 150PF CERAMIC CHIP 0.1MF		50V 25V	JR1103	1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/10W
C1149 1-124-477-11 C1150 1-163-038-00	CERAMIC CHIP 0.1MF	20% 10% 20%	16V 50V 16V 25V	R1102 R1103	1-216-188-00 1-216-049-00 1-216-198-00 1-216-041-00	METAL GLAZE METAL GLAZE	390 1 K 1 K 470	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W
C1151 1-163-038-00 C1152 1-124-477-11	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 4PF	20%	25V 16V	R1105	1-216-005-00	METAL GLAZE	15	5%	1/10W
C1154 1-163-038-00 C1155 1-124-477-11	ELECT 47MF	20%	25V 16V	R1107 R1108 R1109	1-216-036-00 1-216-042-00 1-216-063-00 1-216-202-00	METAL GLAZE METAL GLAZE METAL GLAZE	510 3.9K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W
C1157 1-163-009-11 C1158 1-163-038-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF	10% 10% 5%	50V 50V 25V 50V (V-B2512U)	R1111 R1112 R1113 R1114	1-216-196-00 1-216-041-00 1-216-051-00 1-216-001-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 1.2K 10	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
<c0n< td=""><td>NNECTOR></td><td></td><td></td><td>}</td><td>1-216-121-00</td><td></td><td></td><td></td><td>1/10W</td></c0n<>	NNECTOR>			}	1-216-121-00				1/10W
	CONNECTOR, BOARD TO BOA			R1117 R1118 R1119	1-216-198-00 1-216-097-00 1-216-097-00 1-216-073-00 1-216-232-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 100K 10K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
D1101 8-719-104-34	DIODE 1S2836			R1121	1-216-081-00	METAL GLAZE	22K	5%	1/10W
	DDE> DIODE 1S2836 DIODE 1SV217-TPH3 DIODE 1SV214			R1122 R1123 R1124	1-216-158-00 1-216-158-00 1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE	22 22 47K 100K	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W
	RRITE BEAD> FERRITE BEAD INDUCTOR				1-216-218-00 1-216-097-00		6.8K 100K	5% 5%	1/8W 1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1128 R1129 R1130 R1131 R1132	1-216-089-00 1-216-089-00 1-216-246-00 1-216-218-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 47K 5% 100K 5% 6.8K 5% 100K 5%	1/8W 1/8W		C201 C202 C203 C204 C205	1-130-489-00 1-130-489-00 1-164-005-11 1-164-005-11 1-124-907-11	FILM CERAMIC CHIP CERAMIC CHIP	0.033MF 0.033MF 0.47MF 0.47MF 10MF	5% 5% 20%	50V 50V 25V 25V 50V
R1133 R1134 R1135 R1136 R1137	1-216-212-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 3.9K 5% 22K 5% 22K 5% 82K 5%	1/10W 1/10W		C206 C207 C208 C209 C210	1-137-613-11 1-164-005-11	CERAMIC CHIP FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0018MF 0.47MF 0.47MF	10% 2%	50V 100V 25V 25V 25V
R1138 R1139 R1140 R1141 R1142	1-216-097-00 1-216-005-00 1-216-061-00 1-216-061-00 1-216-033-00	METAL GLAZE	100K 5% 15 5% 3.3K 5% 3.3K 5% 220 5%	1/10W 1/10W 1/10W		C213 C214 C215 C216 C217	1-163-023-00 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.015MF 0.047MF	10% 10% 10% 10% 20%	50V 50V 25V 25V 50V
R1143 R1144 R1145 R1146 R1147	1-216-001-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1K 5% 10 5% 1K 5% 680 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C218 C219 C220 C221 C222	1-163-011-11 1-124-925-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.0015MF 2.2MF 2.2MF	20% 10% 10% 20% 20%	50V 50V 50V 50V 50V
R1148 R1149 R1150 R1151 R1152	1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5% 10 5% 680 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C223 C224 C225 C226 C227	1-136-177-00 1-136-177-00 1-164-182-11 1-163-007-11 1-124-907-11	FILM FILM CERAMIC CHIP CERAMIC CHIP ELECT	1MF 1MF 0.0033MF 680PF 10MF	5% 5% 10% 10% 20%	50V 50V 50V 50V 50V
R1153 R1154	1-216-049-00 1-216-041-00	METAL GLAZE METAL GLAZE STAL>	1K 5% 470 5%	1/10W 1/10W		C228 C229 C230 C231 C232	1-124-907-11 1-124-478-11 1-124-478-11 1-164-346-11 1-163-009-11	ELECT	10MF 100MF 100MF 1MF 0.001MF	20% 20% 20% 10%	50V 25V 25V 16V 50V
X1102	1-579-689-21 1-579-283-11 1-579-282-21	VIBRATOR, CRY VIBRATOR, CRY	STAL (KV- STAL (KV-		******	C236	1-163-009-11 1-164-161-11 1-130-772-00 1-124-618-11 1-124-618-11	CERAMIC CHIP FILM ELECT	0.001MF 0.0022MF 0.22MF 2200MF 2200MF	10% 10% 5% 20% 20%	50V 50V 63V 35V 35V
	*A-1632-106-A *A-1632-113-A	**************************************	**** (KV-B25 LETE (KV- ****			C241 C242	1-164-161-11 1-130-772-00 1-124-916-11 1-124-916-11 1-124-903-11	ELECT Elect	0.0022MF 0.22MF 22MF 22MF 1MF	10% 5% 20% 20% 20%	50V 63V 50V 50V 50V
	*A-1632-117-A *A-1632-114-A 4-200-001-11	A BOARD, COMP	**** LETE (KV- ****			C244 C248 C249 C251 C301	1-164-232-11 1-163-185-00 1-163-129-00 1-126-320-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	150PF 330PF 10MF	10% 5% 5% 20%	50V 50V 50V 16V 25V
C071		SPACER, INSUL ACITOR> ELECT	47MF	20%	10 V	C302 C303 C304 C305 C306	1-163-038-00 1-164-337-11 1-164-004-11 1-163-097-00 1-163-097-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	2.2MF 0.1MF 15PF	10% 5% 5%	25V 16V 25V 50V 50V
C072 C074 C102 C103	1-124-120-11 1-163-001-11 1-126-103-11 1-163-031-11 1-124-910-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	470MF	20% 10% 20%	16V 50V 16V 50V	C307 C308 C309 C310 C311	1-163-017-00 1-163-809-11 1-164-004-11 1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.1MF 0.1MF	10% 10% 10%	50 V 25 V 25 V 25 V 25 V
C105 C106	1-124-916-11 1-124-927-11 1-124-907-11	ELECT ELECT (KV-B2511A, E ELECT	22MF 4.7MF	20% 20% 511K, B2512U 20%	50V 50V	C312 C313 C314 C315	1-124-910-11 1-163-077-00 1-163-038-00 1-124-910-11 1-163-077-00	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	47MF 0.1MF 0.1MF 47MF	20% 20%	50V 50V 25V 50V 50V
C110 C111 C120	1-124-478-11 1-102-074-00 1-163-031-11	ELECT CERAMIC CERAMIC CHIP	100MF 0.001MF 0.01MF	20% 10%	25V 50V 7-B2511B) 50V	C317	1-163-103-00 1-163-103-00 1-163-038-00 1-124-910-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	27PF 27PF	5% 5% 20%	50 V 50 V 25 V 50 V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C321 C322	1-163-038-00 1-124-916-11	CERAMIC CHIP	0.1MF 22MF	20%	25V 50V		<con< td=""><td>NECTOR></td><td></td></con<>	NECTOR>	
C323 C324 C325	1-163-135-00 1-124-910-11	CERAMIC CHIP	560PF 47MF	57 207 57	50V 50V 50V	CN0001 CN0101	*1-568-880-51 1-695-297-11	PIN, CONNECTOR 5P CONNECTOR, BOARD TO BOARD 20 (KV-B2	P 512U,B2513E)
C326 C341	1-163-109-00	CERAMIC CHIP CERAMIC CHIP	47PF	5% 10%	50V 25V	CN0103 CN0104	*1-564-511-71 *1-568-882-51	PLUG, CONNECTOR 8P PIN, CONNECTOR 7P	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C342 C343 C344	1-163-077-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	25V 25V 16V	CN0107	*1-568-879-51 *1-568-878-51	PIN, CONNECTOR 5P PIN, CONNECTOR 4P PIN, CONNECTOR 3P	
C345 C347	1-164-346-11	CERAMIC CHIP CERAMIC CHIP			16V 16V	CN0109	1-695-299-11	CONNECTOR, BOARD TO BOARD 50 PIN, CONNECTOR 7P	Р
C348 C349 C350	1-164-346-11	CERAMIC CHIP CERAMIC CHIP ELECT	1MF 1MF 1OMF	20%	16V 16V 50V	CN0137	*1-564-511-51	CONNECTOR, BOARD TO BOARD 40 PLUG, CONNECTOR 8P PLUG, CONNECTOR 10P	P
C351 C353	1-124-916-11 1-164-346-11	CERAMIC CHIP	22MF 1MF	20%	50V 16V		<dio< td=""><td>DE></td><td></td></dio<>	DE>	
C354 C355 C356	1-164-346-11 1-162-638-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF	10%	16V 16V 16V	D068 D069	8-719-104-34 8-719-104-34	DIODE 1S2836	
C357 C358		CERAMIC CHIP	0.22MF	10% 10%	25 V 25 V	D071 D073 D075	8-719-109-89 8-719-109-89 8-719-400-18	DIODE RD5.6ES-B2 DIODE RD5.6ES-B2 DIODE MA152WK	
C359 C361 C362	1-124-907-11 1-163-101-00 1-130-772-00	ELECT CERAMIC CHIP FILM	10MF 22PF 0.22MF	20% 5% 5%	50V 50V 63V	D077 D078	8-719-109-89	DIODE MA152WK DIODE RD5.6ES-B2	
C363 C365		ELECT ELECT	10MF 220MF	20% 20%	50V 16V	D079 D101 D206	8-719-109-89 8-719-982-27 8-719-400-18	DIODE RD5.6ES-B2 DIODE MTZJ-33C DIODE MA152WK	
C366 C401 C402	1-124-903-11 1-164-005-11 1-124-917-11	ELECT CERAMIC CHIP ELECT	1MF 0.47MF 33MF	20% 20%	50V 16V 50V	D207 D208	8-719-921-89 8-719-911-19	DIODE MTZJ-13C DIODE 1SS119	
C403 C411 C412	1-162-637-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.47MF 0.47MF		16V 25V	D209 D210 D211	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	
C412 C421 C422	1-124-910-11	CERAMIC CHIP ELECT ELECT	0.47MF 47MF 47MF	20% 20%	25V 50V 50V	D212 D213	8-719-911-19 8-719-400-18	DIODE 1SS119 DIODE MA152WK	
C423 C424	1-163-129-00	CERAMIC CERAMIC CHIP	0.01MF 330PF	5% 5%	50V 50V	D301 D302 D304	8-719-400-18 8-719-104-34 8-719-109-89	DIODE MA152WK DIODE 152836 DIODE RD5.6ES-B2	
C425 C426 C427	1-163-129-00 1-124-910-11 1-164-346-11	ELECT CERAMIC CHIP	47MF	20%	50V 50V 16V	D306 D307	8-719-400-18 8-719-400-18	DIODE MA152WK	
C428 C429	1-124-119-00	CERAMIC CHIP	330MF	20%	16V 16V	D308 D381 D401	8-719-800-76 8-719-110-03 8-719-921-69	DIODE RD7.5ES-B2 DIODE MTZJ-9.1	
C574 C581 C582	1-163-117-00 1-163-031-11 1-124-916-11	CERAMIC CHIP ELECT	0.01MF 22MF	5% 20%	50V 50V 50V	D403 D405	8-719-921-69 8-719-921-69	DIODE MTZJ-9.1 DIODE MTZJ-9.1	
C583 C586	1-163-129-00 1-163-063-00	CERAMIC CHIP	0.022MF	5% 10%	50V 50V	D406 D407 D571	8-719-921-69 8-719-921-69 8-719-800-76	DIODE MTZJ-9.1 DIODE MTZJ-9.1 DIODE 1SS226	
C587 C588 C589	1-124-903-11 1-164-346-11 1-126-103-11	ELECT CERAMIC CHIP ELECT	1MF 1MF 470MF	20% 20%	50V 16V 16V	D682	8-719-109-89	DIODE RD5.6ES-B2	
C590 C591	1-124-916-11 1-124-925-11	ELECT ELECT	22MF 2.2MF	20% 20%	50V 50V	1,0000	<10>		
C592 C593 C595	1-163-017-00 1-164-182-11 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0033MF	10% 10% 5%	50V 50V 50V		8-759-073-14 8-759-073-30	IC TDA6612 (KV-B2511A,B2511B,B2511D,B2	2511K,B2513E)
C599 C681	1-124-478-11	CERAMIC CHIP	100MF	10% 20%	50V 25V		8-759-073-31 8-759-502-21	IC TDA6622 (KV-B2512U) IC TDA2822M	
C682 C683 C684	1-126-101-11 1-124-478-11 1-124-478-11	ELECT ELECT ELECT	100MF 100MF 100MF	20% 20% 20%	16V 25V 25V	IC251 IC261 IC301	8-759-073-15	IC TDA2052 IC TDA2052 IC TDA9145/N1	
C685	1-124-478-11	ELECT	100MF	20%	25V	10302	8-759-084-91	IC TDA4661/V2	
	<fil< td=""><td>TER></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></fil<>	TER>							
CF581	1-577-611-11	OSCILALTOR,	CERAMIC			İ			



Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
IC401 IC402 IC681	8-759-073-00 8-759-072-98	IC CXA1545AS IC TEA2114 IC TDA8138A		JR102 JR104 JR105 JR107	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/10W 1/10W	
1 C 6 8 4	8-759-982-10 <if< td=""><td></td><td></td><td>JR110 JR111 JR112 JR113 JR114</td><td>1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE METAL GLAZE</td><td>0 5% 0 5% 0 5% 0 5% 0 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></if<>			JR110 JR111 JR112 JR113 JR114	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
[FB101	1-466-733-11	IF BLOCK (IFH-389)	, B2513E)	JR115 JR116 JR117 JR118 JR119	1-216-295-00	METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L101 L102 L201 L307	<01 1-412-546-41 1-408-413-00 1-407-500-00 1-408-405-00	INDUCTOR 560UH		JR120 JR121 JR122 JR123 JR125	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W	
L308 L309 L310 L572 L610	1-408-409-00	INDUCTOR 47UH INDUCTOR 10UH FERRITE BEAD INDUCTOR INDUCTOR 1MMH INDUCTOR 150UH		JR127 JR129 JR131 JR132 JR133	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%		
L611	1-412-539-41 <ic< td=""><td>INDUCTOR ÎSOUH LINK> LINK, IC O.4A</td><td></td><td>JR134 JR136 JR137 JR138 JR140</td><td>1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>0 5% 0 5% 0 5% 0 5% 0 5%</td><td>1/8W 1/10W 1/10W 1/10W 1/10W</td><td></td></ic<>	INDUCTOR ÎSOUH LINK> LINK, IC O.4A		JR134 JR136 JR137 JR138 JR140	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
3 19 7 01/1				JR141	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52 0 52	1/10W 1/10W 1/10W	
Q071				JR144	1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 52	1/10W 1/10W	
Q101 Q102 Q103 Q201	8-729-216-22 8-729-901-00 8-729-900-53 8-729-901-81	TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R		JR152 JR201A JR202 JR203	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52 0 52	1/10W 1/8W 1/8W 1/8W 1/8W	
Q202 Q203 Q204 Q205 Q206	8-729-901-81 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR DTA124EK TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-T-146-R		JR204 JR205 JR206 JR207 JR208	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%		
Q207 Q209 Q210 Q303 Q304	8-729-901-81 8-729-901-81 8-729-901-81 8-729-216-22 8-729-900-53	TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SA1162-G TRANSISTOR DTC114EK		JR209 JR210 JR211 JR212 JR213	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52 0 52 0 52	1/8W	
Q306 Q311 Q312 Q313 Q401	8-729-216-22 8-729-901-06 8-729-900-53 8-729-216-22 8-729-901-81	TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK TRANSISTOR DTC114EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-T-146-R		JR214 JR215 JR216 JR217	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52	1/8W	
Q402 Q403 Q581 Q582	8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R		JR218 JR219 JR220	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52 0 52		
Q 610	8-729-216-22 8-729-140-97 8-729-900-53	TRANSISTOR 2SA1162-G TRANSISTOR 2SB734-34 TRANSISTOR DTC114EK		JR221 JR222 JR223 JR225	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52	1/8¥ 1/8¥	
Q683		TRANSISTOR 2SD774-34		JR226 JR227	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 52 0 52	1/80 1/80	
JR101	<res 1-216-295-00</res 	ISTOR> METAL GLAZE 0 5% 1/10W		JR228 JR229 JR230	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 52 0 52 0 52 0 52 0 52	1/8# 1/8# 1/8#	



REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			RE
JR231 1-216-296-00 JR232 1-216-296-00 JR233 1-216-296-00 JR234 1-216-296-00 JR235 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0	5%	1/8W 1/8W 1/8W 1/8W 1/8W		R228 R229 R230 R231	1-216-081-00 1-216-039-00 1-216-246-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 390 100K 100K	5% 5% 5%	1/10W 1/10W 1/8W 1/10W
JR236 1-216-296-00 JR237 1-216-296-00 JR238 1-216-296-00 JR239 1-216-296-00 JR240 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W		R232 R233 R234 R235 R236 R237	1-216-081-00 1-216-071-00 1-216-077-00 1-216-073-00 1-216-081-00 1-216-025-00	METAL GLAZE	22K 8.2K 15K 10K 22K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
JR241 1-216-296-00 JR242 1-216-296-00 JR243 1-216-296-00 JR245 1-216-296-00 JR247 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W		R238 R238 R239 R241 R242 R244	1-216-025-00 1-216-025-00 1-216-065-00 1-216-214-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 0 4.7K 4.7K 6.8K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W
JR248 1-216-296-00 JR250 1-216-296-00 JR251 1-216-296-00 JR252 1-216-296-00 JR253 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W		R245 R246 R247 R248 R249	1-216-089-00 1-216-089-00 1-216-097-00 1-216-073-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 100K 10K 10K 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR254 1-216-296-00 JR255 1-216-295-00 JR256 1-216-296-00 JR257 1-216-295-00 JR258 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/8W		R250 R251 R252 R253 R254	1-216-095-00 1-216-095-00 1-216-073-00 1-216-073-00 1-216-252-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 4.7K 10K 10K 180K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
JR270 1-216-295-00 JR272 1-216-295-00 R071 1-216-041-00 R072 1-216-033-00 R073 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 470 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R256 R256 R257 R258 R259	1-216-252-00 1-249-409-11 1-249-409-11 1-216-089-00 1-216-063-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	180K 220 220 47K 3.9K	5% 5% 5%	1/8W 1/4W 1/4W 1/10W 1/10W
R074 1-216-198-00 R076 1-216-057-00 R077 1-216-025-00 R101 1-216-025-00 R102 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.2K 100 100 1K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		R301 R301 R302 R303 R304	1-216-212-00 1-216-041-00 1-216-041-00 1-216-174-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9k 470 470 100 100	5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/8W
R103 1-216-059-00 R105 1-216-073-00 R108 1-216-230-00 R115 1-216-210-00 R201 1-216-653-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	2.7K 10K 22K 3.3K 1.2K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/8W 1/8W 1/10W		R305 R306 R307 R308 R309	1-216-035-00 1-216-035-00 1-216-075-00 1-216-121-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	270 270 12K 1M 10	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R202 1-216-653-11 R203 1-216-067-00 R204 1-216-091-00 R205 1-216-071-00 R206 1-216-071-00	METAL GLAZE METAL GLAZE	1.2K 5.6K 56K 8.2K 8.2K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R310 R311 R312 R314 R315	1-216-001-00 1-216-065-00 1-249-413-11 1-249-409-11 1-249-409-11	METAL GLAZE METAL GLAZE CARBON CARBON CARBON	10 4.7K 470 220 220	5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/4W
R207 1-216-057-00 R208 1-216-057-00 R209 1-249-377-11 R210 1-247-734-11 R211 1-247-734-11		2.2K 2.2K 0.47 39 39	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W 1/2W 1/2W	F	R316 R318 R319 R322 R331	1-216-085-00 1-216-041-00 1-249-413-11 1-216-041-00 1-216-097-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	33K 470 470 470 100K	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W 1/10W 1/10W
R212 1-216-049-00 R213 1-216-073-00 R214 1-216-049-00 R215 1-216-073-00 R216 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 O K 1 K 1 O K 1 K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R333 R334 R336 R337	1-216-182-00 1-216-182-00 1-216-178-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 150 470	555 5555555555555555555555555555555555	/8W /8W /8W /10W
R217 1-216-045-00 R218 1-216-081-00 R221 1-212-849-00 R222 1-216-049-00 R223 1-216-045-00	METAL GLAZE FUSIBLE METAL GLAZE	680 22K 4.7 1K 680	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W 1/10W 1/10W	F	R338 R339 R340 R341 R342	1-216-037-00 1-216-025-00 1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 100 100 100 220	5% 5% 5%	/ 10W / 10W // 10W // 10W // 10W
R224 1-249-433-11 R225 1-212-849-00 R226 1-249-412-11 R227 1-216-081-00	CARBON	22K 4.7 390 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/10W	F	R343 R344 R345 R346	1-216-022-00 1-216-022-00 1-216-171-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 75 75 75	5% 5% 5%	/ 10W / 10W / & W / 10W

A IF(KV-B2511A/B2511D) B2511K/B2513E)

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R347 R351 R352 R354 R355	1-216-083-00 1-216-073-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 10K 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R684 R685	1-216-047-00 1-216-049-00 <tun< td=""><td>METAL GLAZE</td><td>820 5% 1K 5%</td><td>1/10W 1/10W</td><td></td></tun<>	METAL GLAZE	820 5% 1K 5%	1/10W 1/10W	
R356 R357 R358 R359 R360	1-216-033-00 1-216-041-00 1-216-031-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 470 180 220 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		TU101	1-693-185-11		2511B,B2511		K,B2513E)
R361 R362 R367 R373 R376	1-216-033-00 1-216-077-00 1-216-212-00 1-216-017-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 15K 3.9K 47 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		X301 X302	1-567-504-11	STAL> OSCILLATOR, COSCILLATOR, COSCILLATOR, CO	CRYSTAL	******	******
R377 R378 R379 R380 R381	1-216-051-00 1-216-057-00 1-216-206-00 1-216-057-00 1-216-164-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 2.2K 2.2K 2.2K 2.2K 39	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W				·	H-389) ****** B2511A,B2511	D, B2511	K,B2513E)
R382 R383 R401 R402 R403	1-216-164-00 1-216-164-00 1-216-171-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39 39 75 22 100	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W		C101 C102 C103 C104	1-163-121-00 1-164-222-11 1-164-232-11 1-164-232-11	ACITOR> CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.01MF 0.01MF	5% 10% 10%	50V 25V 50V 50V
R404 R405 R406 R407 R408	1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00 1-216-093-00		22 100 22 100 68K	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/10W		C105 C106 C107 C108 C109	1-164-004-11 1-124-477-11 1-164-004-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 0.1MF 0.1MF 0.01MF	10% 20% 10% 10% 10%	25V 16V 25V 25V 50V 25V
R410 R411 R412 R413 R414	1-216-067-00 1-216-067-00 1-216-022-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5.6K 75 75 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C112 C113 C114 C115 C116	1-164-004-11 1-163-101-00 1-124-477-11 1-164-232-11 1-164-346-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 47MF 0.01MF 1MF	10% 5% 20% 10%	50V 16V 50V 16V 25V
R416 R417 R419 R420 R424	1-216-113-00 1-216-067-00 1-216-113-00 1-216-067-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5.6K 470K 5.6K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C118 C119 C121 C122 C123	1-164-004-11 1-163-369-11 1-163-235-11 1-163-235-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47PF 22PF 33PF 22PF	5% 5% 5% 5% 10%	50 V 50 V 50 V 50 V 50 V 25 V
R425 R428 R574 R575 R581	1-216-025-00 1-249-393-11 1-216-041-00 1-216-037-00 1-216-033-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	100 10 470 330 220	5%	1/10W 1/4W 1/10W 1/10W 1/10W	F	C124 C130 C131 C133 C152 C153	1-216-295-00 1-163-093-00 1-124-477-11 1-164-337-11 1-164-337-11	METAL GLAZE CERAMIC CHIP	0 5% 10PF 47MF 2.2MF	1/10W 5% 20%	
R582 R583 R584 R586 R587	1-216-037-00 1-216-053-00 1-216-039-00 1-216-047-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 1.5K 390 820 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C154 C155 C156 C161 C162	1-164-337-11		2.2MF 0.01MF 47MF 100PF	10% 20% 5%	16V 50V 16V 50V 25V
R589 R590 R591 R592	1-216-101-00 1-216-073-00 1-216-049-00 1-216-073-00 1-216-232-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 10K 1K 10K 27K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W		C163 C164 C165 C166 C167	1-164-346-11 1-163-141-00 1-164-232-11 1-124-477-11 1-163-213-00	CERAMIC CHIP CERAMIC CHIP	1MF 0.001MF 0.01MF 47MF	5% 10% 20% 5%	16V 50V 50V 16V 50V
R593 R594 R595 R596 R597	1-2 16-063-00 1-2 16-053-00 1-2 16-643-11 1-2 16-670-11 1-2 16-230-00	METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE	3.9K 1.5K 470 6.2K 22K	0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		C168 C170 C171 C172 C173	1-164-346-11 1-124-477-11 1-124-477-11 1-124-477-11 1-124-477-11	CERAMIC CHIP ELECT ELECT ELECT		20% 20% 20% 20%	16V 16V 16V 16V 16V
R616 R628 R681	1-2 16-190-00 1-2 16-035-00 1-2 49-413-11 1-2 16-397-11	METAL GLAZE Carbon	470 270 470 4.7	5% 5% 5% 5%	1/10W 1/10W 1/4W 3W	F	(11)	1 127 411 11	20201	z:	204	•••

IF(KV-B2511A/B2511D) B2511K/B2513E)

							\	DZ	:311K/D	25 131
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	<fil< td=""><td>TER></td><td></td><td></td><td>IDOA</td><td>1-216-296-00</td><td></td><td>0 5</td><td>% 1/8W</td><td></td></fil<>	TER>			IDOA	1-216-296-00		0 5	% 1/8W	
CF2 CF3 CF4 SWF1	1-527-840-00 1-567-570-11	FILTER, CERAMI FILTER, CERAMI FILTER, CERAMI FILTER, SAWTOO	C C C Th wave		JR25 JR29 JR30 JR33 JR38	1-216-296-00 1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5 0 5 0 5 0 5 0 5	7 1/8W 7 1/8W 7 1/10W 7 1/10W 7 1/8W	
	<con< td=""><td>NECTOR></td><td></td><td></td><td>!</td><td>1-216-296-00</td><td>METAL GLAZE METAL GLAZE</td><td>0 5</td><td>% 1/8W % 1/8W</td><td></td></con<>	NECTOR>			!	1-216-296-00	METAL GLAZE METAL GLAZE	0 5	% 1/8W % 1/8W	
CN1 CN2	1-750-173-11 1-750-173-11	NECTOR> PIN, CONNECTOR PIN, CONNECTOR	(PC BOARD) 1 (PC BOARD) 1	0P 0P	R101 R102 R103	1-216-296-00 1-216-075-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5 12K 5 10K 5 2.2K 5	7 1/10W 7 1/10W 7 1/10W 7 1/10W	
	<tri< td=""><td>MMER></td><td></td><td></td><td>R104 R106</td><td>1-216-051-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE</td><td>1.2K 5 1K 5</td><td>% 1/10W % 1/10W</td><td></td></tri<>	MMER>			R104 R106	1-216-051-00 1-216-049-00	METAL GLAZE METAL GLAZE	1.2K 5 1K 5	% 1/10W % 1/10W	
CT1		TRAP, CERAMIC			R107 R108 R110	1-216-065-00 1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE	1.2K 5 1K 5 4.7K 5 4.7K 5 470 5	% 1/10W % 1/10W % 1/10W	
D161	<dio< td=""><td>DIODE MA152WK</td><td></td><td></td><td>R113 R114</td><td>1-216-031-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE</td><td>180 5 1K 5</td><td>% 1/10W % 1/10W</td><td></td></dio<>	DIODE MA152WK			R113 R114	1-216-031-00 1-216-049-00	METAL GLAZE METAL GLAZE	180 5 1K 5	% 1/10W % 1/10W	
D101	<1C>				R115 R116 R117	1-216-027-00 1-216-101-00 1-216-097-00	METAL GLAZE	180 5 1K 5 120 5 150K 5 100K 5	7 1/10W 7 1/10W 7 1/10W 7 1/10W	
101 102	8-759-070-76 8-759-070-71	IC M52308SP			R118	1-216-117-00	METAL GLAZE METAL GLAZE	680K 5 56K 5	% 1/10W % 1/8W	
103	8-759-514-54	IC BA7046			R119 R120 R121 R122	1-216-240-00 1-216-075-00 1-216-053-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	680K 5 56K 5 12K 5 1.5K 5 3.3K 5	7 1/10W 7 1/10W 7 1/10W	
1.101	<01 1-408-421-00		100110		R123 R124	1-216-075-00 1-216-041-00	METAL GLAZE METAL GLAZE	12K 5	% 1/1 OW % 1/1 OW	
L101 L102 L103 L104 L121	1-408-419-00 1-408-419-00 1-408-408-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	100UH 68UH 68UH 8.2UH 22UH		R125 R127 R130	1-216-041-00 1-216-047-00 1-216-049-00	METAL GLAZE	470 5 820 5 1K 5	% 1/10W	
L122	1-408-420-00		82UH		R131 R132	1-216-025-00 1-216-069-00	METAL GLAZE	100 5 6.8K 5 3.3K 5	% 1/10W % 1/10W	
L142 L151 L161	1-408-419-00	INDUCTOR INDUCTOR INDUCTOR	82UH 0.56UH 68UH 68UH		R133 R134 R135	1-216-061-00 1-216-049-00 1-216-198-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 5 1K 5 1K 5	% 1/1 OW % 1/1 OW % 1/8 W	
	<tra< td=""><td>INSISTOR></td><td></td><td></td><td>R150</td><td>1-216-043-00 1-216-043-00</td><td>METAL GLAZE</td><td>560 5 560 5</td><td>7 1/1 OW 7 1/1 OW</td><td></td></tra<>	INSISTOR>			R150	1-216-043-00 1-216-043-00	METAL GLAZE	560 5 560 5	7 1/1 OW 7 1/1 OW	
Q101 Q102 Q121	8-729-216-22 8-729-901-81	TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SC	1162-G 2412K-T-146-R			1-216-043-00 1-216-025-00 1-216-049-00	METAL GLAZE METAL GLAZE	_	% 1/1 OW % 1/1 OW % 1/1 OW % 1/1 OW % 1/1 OW	
0122 0161	8-729-216-22 8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SA	1162-G		R156	1-216-083-00	METAL GLAZE METAL GLAZE	27K 5	% 1/1 OW % 1/1 OW	
Q170 Q171 Q172	8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K-T-146-F	}	R157 R159 R160	1-216-051-00 1-216-107-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	270K 5 1K 5	% 1/1 OW % 1/1 OW	
Q173	8-729-901-81	TRANSISTOR 2SC	2412K-T-146-F	₹	R161 R162	1-218-755-11 1-216-073-00	METAL CHIP METAL GLAZE	130K 0	.50% 1/1 OW % 1/1 OW	!
	<res< td=""><td>SISTOR></td><td></td><td></td><td>R163 R164 R165</td><td>1-216-113-00 1-216-113-00 1-216-081-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>10K 5 470K 5 470K 5 22K 5</td><td>% 1/1 OW % 1/1 OW % 1/1 OW</td><td></td></res<>	SISTOR>			R163 R164 R165	1-216-113-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5 470K 5 470K 5 22K 5	% 1/1 OW % 1/1 OW % 1/1 OW	
JR2 JR3	1-216-295-00 1-216-296-00		0 5% 1 0 5% 1	1/10W 1/8W	R166	1-216-049-00	METAL GLAZE			
JR4 JR7 JR8	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 1	1/10W 1/10W 1/10W	R167 R168 R169 R170	1-216-073-00 1-216-113-00 1-216-049-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5	% 1/i OW	
JR9 JR11	1-216-296-00 1-216-296-00			1/8W 1/8W	R171	1-216-075-00	METAL GLAZE			
JR14 JR16 JR18	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 1 0 5% 1	1/8W 1/10W 1/10W	R172 R173 R174 R175	1-216-095-00 1-216-059-00 1-216-057-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 5 82K 5 2.7K 5 2.2K 5 27K 5	7 1/1 OW 7 1/1 OW 7 1/1 OW 7 1/1 OW 7 1/1 OW	
JR19 JR20	1-216-296-00 1-216-296-00		0 5% 1	1/8W 1/8W	R176	1-216-075-00	METAL GLAZE	12K 5	% 1/1 OW	
JR21 JR23	1-216-296-00 1-216-296-00	METAL GLAZE	0 5% 1	1/8W 1/8W	R177	1-216-095-00	METAL GLAZE	82K 5	ž 1/1 OW	

IF(KV-B2511A/B2511D) B2511K/B2513E) **IF** (KV-B2511B)

REF.NO.	PART NO.	DESCRIPTION	<u> </u>		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R178 R179	1-216-059-00 1-216-057-00	METAL GLAZE METAL GLAZE	2.7K 5% 2.2K 5% 330 5% 330 5%	1/10W 1/10W		C101		CERAMIC CHIP O		10%	50V
R180 R181	1-216-037-00 1-216-037-00	METAL GLAZE	330 5% 330 5%	1/10W 1/10W		C104 C105	1-163-017-00 1-163-017-00	CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP O	.0047MF .0047MF	10% 10% 10%	50V 50V 50V
	<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td>C106 C121</td><td>1-163-017-00 1-126-176-11</td><td>CERAMIC CHIP O</td><td>.0047MF 20MF</td><td>10% 20%</td><td>50V 10V</td></var<>	IABLE RESISTOR	>			C106 C121	1-163-017-00 1-126-176-11	CERAMIC CHIP O	.0047MF 20MF	10% 20%	50V 10V
RV1	1-241-121-11	RES, ADJ, CAF	IBON 4.7K			C122 C131	1-163-119-00 1-126-099-11	CERAMIC CHIP 1 ELECT 2	20PF .2MF	5% 20%	50V 35V
	<tra< td=""><td>NSFORMER></td><td></td><td></td><td></td><td> </td><td><fil< td=""><td>TER></td><td></td><td></td><td></td></fil<></td></tra<>	NSFORMER>					<fil< td=""><td>TER></td><td></td><td></td><td></td></fil<>	TER>			
T4 T5	1-416-017-21 1-416-018-21					CF1 CF2	1-527-839-00 1-567-569-11	FILTER, CERAMI FILTER, CERAMI	C C		
*****	**************************************	IF BLOCK (IF	1-389F) (KV-				1-527-840-00 1-567-570-11	FILTER, CERAMI FILTER, CERAMI FILTER, SURFAC	C C		
	<cap< td=""><td>**************************************</td><td>******</td><td></td><td></td><td>SWF3 SWF4</td><td>1-404-711-11 1-579-660-11</td><td>SAWF FILTER, SAWTOO</td><td>TH WAVE</td><td></td><td></td></cap<>	**************************************	******			SWF3 SWF4	1-404-711-11 1-579-660-11	SAWF FILTER, SAWTOO	TH WAVE		
C1 C2	1-163-017-00 1-164-232-11	CERAMIC CHIP	0.0047MF	10% 10%	50 V 50 V	! !	<con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<>	NECTOR>			
C3 C4 C5	1-124-903-11 1-164-232-11	ELECT CERAMIC CHIP CERAMIC CHIP	1MF 0.01MF	20% 10% 10%	50V 50V 50V	CN1 CN2	1-750-173-11 1-750-173-11	PIN, CONNECTOR PIN, CONNECTOR	(PC BOARD) (PC BOARD)	10P 10P	
C6 C7	1-163-017-00 1-164-232-11	CERAMIC CHIP	0.01MF	10% 10%	50 V 50 V		<tri< td=""><td>MMER></td><td></td><td></td><td></td></tri<>	MMER>			
C8 C9 C10	1-163-017-00 1-124-916-11	CERAMIC CHIP ELECT CERAMIC CHIP	0.0047MF 22MF	10% 20% 10%	50V 25V 50V	CT1 CT2 CV1	1-404-801-11 1-409-429-11 1-141-245-00 1-141-245-00	TRAP, CERAMIC TRAP, CERAMIC CAP, TRIMMER			
C11 C13	1-124-477-11 1-163-059-00	CERAMIC CHIP	47MF 0.01MF	20% 10%	16V 50V	CV2 CV3	1-141-304-21	TRIMMER, CERAM	IC		
C14 C15 C16	1-124-477-11 1-124-903-11 1-163-061-00	ELECT	47MF 1MF 0.015MF	20% 20% 10%	16V 50V 50V	• •	<d10< td=""><td></td><td></td><td></td><td></td></d10<>				
C17 C18	1-162-638-11 1-162-638-11				16V 16V	D7 D8 D9	8-719-421-57	DIODE MA73-TX DIODE MA73-TX DIODE MA73-TX			
C19 C20 C21	1-163-141-00 1-124-902-00 1-124-903-11	ELECT	0.001MF 0.47MF 1MF	5% 20% 20%	50V 50V 50V		<10>				
C22 C23	1-164-232-11 1-124-902-00	CERAMIC CHIP	0.01MF 0.47MF	10% 20%	50 V 50 V	1C1 1C2	8-759-070-75 8-759-070-71				
C24 C25 C26	1-164-506-11 1-124-477-11 1-164-232-11	CERAMIC CHIP ELECT CERAMIC CHIP	4.7MF 47MF	20% 10%	16V 16V 50V	IC3	8-759-979-62				
C27	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50 V	 	100>		60111		
C28 C33 C34	1-124-477-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT	47MF 10MF 10MF	20% 20% 20%	16V 50V 50V	L1 L2 L3	1-408-419-00 1-408-419-00 1-408-407-00	INDUCTOR INDUCTOR INDUCTOR	68UH 68UH 6.8UH		
C35 C36	1- 124-925-11 1- 124-477-11	ELECT ELECT	2.2MF 47MF	20% 20%	50V 16V	L4 L5	1-408-419-00 1-408-419-00	INDUCTOR INDUCTOR	68UH 68UH		
C37 C38	1-164-232-11 1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.01MF 0.0047MF	10% 10%	50V 50V	L7 L9	1-408-406-00 1-408-419-00	INDUCTOR INDUCTOR	5.6UH 68UH		
C40 C71	1-164-232-11 1-124-477-11	CERAMIC CHIP ELECT	47MF	10% 20%	50V 16V	L71 L101 L121	1-408-419-00 1-408-399-00 1-408-407-00	INDUCTOR INDUCTOR INDUCTOR	68UH 1.5UH 6.8UH		
C72 C80 C83	1- 164-232-11 1- 124-477-11 1- 124-477-11	CERAMIC CHIP ELECT ELECT	0.01MF 47MF 47MF	10% 20% 20%	50V 16V 16V	5 6 1 1	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
C84 C85	1-124-477-11 1-124-477-11	ELECT ELECT	47MF 47MF	20% 20%	16V 16V	Q1 Q4	8-729-907-06 8-729-901-81	TRANSISTOR BF1 TRANSISTOR 2SC	99-AMMO	P	
C86 C87 C91 C95	1- 124-477-11 1- 124-477-11 1- 163-229-11 1- 164-337-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP	47MF 47MF 12PF 2.2MF	20% 20% 5%	16V 16V 50V 16V	Q5 Q6 Q7	8-729-901-81 8-729-115-10 8-729-900-52 8-729-216-22	TRANSISTOR 2SK TRANSISTOR DTC TRANSISTOR 2SA	105A-10 114YK	, _' K	

IF (KV-B2511B) **IF** (KV-B2512U)

						· L	`		L		1	
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q8 Q10 Q11 Q12 Q13	8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	C2412K- C2412K- C2412K-	-T-146-R -T-146-R -T-146-R		201	1-216-025-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 18K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W	
Q14 Q15 Q16 Q101 Q121	8-729-901-81 8-729-216-22 8-729-104-80	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	C2412K- A1162-(C3355	-T-146-R G		1	1-216-121-00 1-216-025-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 1M 100 33K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td>R86 R87 R88</td><td>1-216-689-11 1-216-095-00 1-216-095-00</td><td>METAL GLAZE</td><td>39K 82K 82K</td><td>5% 5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>				R86 R87 R88	1-216-689-11 1-216-095-00 1-216-095-00	METAL GLAZE	39K 82K 82K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
JR2 JR3	1-216-295-00 1-216-296-00		0	5% 1/10 5% 1/8W		R89 R90	1-216-095-00 1-216-075-00	METAL GLAZE	82K 12K		1/10W 1/10W	
JR5 R1 R2	1-216-296-00 1-216-025-00 1-216-065-00		0 0 0 100 4.7K		W	R91 R92 R93 R94	1-216-295-00 1-216-075-00 1-216-075-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 12K 12K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R3 R4 R5	1-216-065-00 1-216-041-00 1-216-021-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470 68 1.8K 1.2K	5% 1/10 5% 1/10 5% 1/10	W	R95 R96	1-216-059-00 1-216-059-00				1/10W 1/10W	
R6 R8	1-216-055-00 1-216-051-00	METAL GLAZE METAL GLAZE				R97 R98 R99	1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 2.2K 2.2K 2.2K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	
R9 R10 R11	1-216-069-00 1-216-071-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 8.2K 2.7K 2.7M 2.2K	5% 1/10 5% 1/10 5% 1/10	1.1	R100	1-216-065-00 1-216-065-00				1/10W 1/10W	
R24 R25	1-216-280-00 1-216-057-00	METAL GLAZE METAL GLAZE			 W	R102 R103 R104 R105	1-216-063-00 1-216-049-00 1-216-033-00	METAL GLAZE METAL GLAZE	3.9K 1K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R26 R27	1-216-061-00 1-216-266-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 680K 12K 270	5% 1/10 5% 1/8W 5% 1/10		R121	1-216-073-00	METAL GLAZE	10K 4.7K		1/10W 1/10W	
R28 R29 R30	1-216-075-00 1-216-035-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	270 1K	5% 1/10 5% 1/10	W	R122 R123 R124	1-216-065-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 470	5% 5% 5% 5%	1/10W 1/10W	
R31 R32	1-216-017-00 1-216-043-00	METAL GLAZE METAL GLAZE	47 560	5% 1/10 5% 1/10	W	R125 R301	1-216-041-00 1-216-049-00	METAL GLAZE	470 1K		1/10W 1/10W	
R33 R34 R35	1-216-037-00 1-216-252-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 180K 270	5% 1/10 5% 1/10 5% 1/10 5% 1/8W 5% 1/10		R302 R303 R304	1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE	1K 1K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R36 R37	1-216-029-00 1-216-049-00	METAL GLAZE METAL GLAZE			id	R305 R306	1-216-049-00 1-216-025-00		1K 100		1/10W 1/10W	
R38 R39 R40	1-216-099-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 1K 120K 47K 1K	5% 1/10 5% 1/10 5% 1/10	W	R307 R308	1-216-037-00 1-216-037-00	METAL GLAZE METAL GLAZE	330 330	5% 5%	1/10W 1/10W	
R42 R43	1-216-061-00 1-216-067-00	METAL GLAZE METAL GLAZE	3.3K 5.6K	5% 1/10 5% 1/10	W	l l		HABLE RESISTOR				
R44 R45 R46	1-216-027-00 1-216-041-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	120 470 180	5% 1/10 5% 1/10 5% 1/10 5% 1/10	W	RV2		RES, ADJ, CAI	ßUN ∠.	2K		
R47 R48	1-216-075-00 1-216-081-00	METAL GLAZE METAL GLAZE	12K 22K	5% 1/10 5% 1/10	W	<u>T1</u>	1-404-806-21					
R49 R53 R54	1-216-049-00 1-216-082-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 24K 560	5% 1/10 5% 1/10 5% 1/10	W	† 13 † 14 † 15	1-416-012-11 1-416-012-11 1-402-720-11	COIL COIL COIL				
R55 R56	1-216-043-00 1-216-065-00	METAL GLAZE METAL GLAZE	560 4.7K	5% 1/10 5% 1/10	W		<cry< td=""><td>'STAL></td><td></td><td></td><td></td><td></td></cry<>	'STAL>				
R57 R58 R59	1-216-065-00 1-216-041-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470 560	5% 1/10 5% 1/10 5% 1/10	₩	X1	1-579-648-21	VIBRATOR, CE	RANIC			
R60	1-216-043-00	METAL GLAZE	560		W	******		************				******
R61 R63 R71	1-216-295-00 1-216-043-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 560 18K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	M M	1 1	1-466-734-11	IF BLOCK (IFF		(KV-B	412 U)	
R72	1-216-079-00	METAL GLAZE	18K		₩	† † †	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
R73	1-216-049-00	METAL GLAZE	1 K	5% 1/10	w	C101	1-163-239-11	CERAMIC CHIP	33PF		ty -	50 V

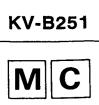
IF (KV-B2512U)

						DARW NO	PECCULPATON			DEMARK
REF.NO. PART NO.	DESCRIPTION		REM 	IARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C102 1-164-222-11	CERAMIC CHIP O.	22MF	25V 50V	i		<trai< td=""><td>ISISTOR></td><td></td><td></td><td></td></trai<>	ISISTOR>			
C103 1-164-232-11 C104 1-164-232-11 C105 1-164-004-11	CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O.	01MF 10	2 50V 2 50V 2 25V			8-729-901-81 8-729-216-22	TRANSISTOR 2SC TRANSISTOR 2SA	2412K-T-14	6-R	
C106 1-124-477-11	ELECT 47			i	0122	8-729-216-22 8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SA	1162-G 1162-G		
C107 1-164-004-11 C108 1-164-004-11	CERAMIC CHIP O. CERAMIC CHIP O.	1MF 10 1MF 10	16V 25V 25V 25V 50V		Q172	8-729-901-81	TRANSISTOR 2SC	2412K-T-14		
C109 1-164-232-11	CERAMIC CHIP O. CERAMIC CHIP O.	01MF 10 1MF 10	50V 25V		Q173	8-729-901-81	TRANSISTOR 2SC	32412K-T-14	b-R	
C113 1-163-101-00 C114 1-124-477-11	CERAMIC CHIP 22	2PF 5%	50V 16V	Ì		<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
C115 1-164-232-11	CERAMIC CHIP O. CERAMIC CHIP 1M	01MF 10	50V 16V	ţ	JR2	1-216-295-00	METAL GLAZE METAL GLAZE	0 5%	1/8W 1/10W	
C118 1-164-004-11	CERAMIC CHIP O.	.1MF 10	0% 25V		JR3 JR4	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/10W	
C119 1-163-369-11 C122 1-163-093-00	CERAMIC CHIP 47 CERAMIC CHIP 10	7PF 5% 1PF 5%	50V 50V	-	JR7	1-216-295-00			1/10W 1/10W	
C130 1-216-295-00 C131 1-163-224-11	METAL GLAZE U CERAMIC CHIP 7P	1 57 1	1/10W .25PF 50V)% 16V	į	JR8 JR9 JR10	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/8W 1/8W	
C133 1-124-477-11 C161 1-163-117-00					JR11 JR12	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/10W	
C162 1-164-222-11 C163 1-164-346-11	CERAMIC CHIP 10 CERAMIC CHIP 0. CERAMIC CHIP 1M CERAMIC CHIP 0. CERAMIC CHIP 0.	. 22MF MF	25V 16V		JR13	1-163-093-00	CERAMIC CHIP 1	IOPF		50V
C164 1-163-141-00 C165 1-164-232-11	CERAMIC CHIP O. CERAMIC CHIP O.	.001MF 5% .01MF 10	% 50V 0% 50V		JR16	1-216-296-00 1-216-295-00	METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/8W 1/10W 1/10W	
C166 1-124-477-11	ELECT 47	7MF 20)% 16V		JR18 JR19	1-216-295-00 1-216-296-00	METAL GLAZE	0 5% 0 5%	1/10w 1/8W	
C167 1-163-213-00 C168 1-164-346-11 C170 1-124-477-11	ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 1M ELECT 47 ELECT 47	.0022MF 34 MF 7MF 20	50V 16V 0% 16V	,	JR20 JR21	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8W	
Č171 1-124-477-11	ELECT 47	7MF 20	0% 16V		JR23 JR24	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8W	
<f1< td=""><td>LTER></td><td></td><td></td><td></td><td>JR25</td><td>1-216-296-00</td><td></td><td></td><td>1/8₩ 1/8₩</td><td></td></f1<>	LTER>				JR25	1-216-296-00			1/8₩ 1/8₩	
CD1 1-579-657-21 CF1 1-567-569-11	DISCRIMINATOR, FILTER, CERAMIC	CERAMIC			JR30 JR33	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W	
SWF1 1-579-659-11	FILTER, SAWTOOT	TH WAVE			JR38 JR39	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W	
<00	NNECTOR>				!				1/8W	
CN1 1-750-173-11	NNECTOR> PIN, CONNECTOR PIN, CONNECTOR	(PC BOARD)	10P		JR41 JR42	1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 12K 5%	1/10W 1/10W 1/10W	
CN2 1-750-173-11	PIN, CUNNECTUR	(PC BUARD)	IUP .		R101	1-216-075-00	METAL GLAZE	12K 5%	1/10W	
<tr< td=""><td>I MMER></td><td></td><td></td><td></td><td>R102 R103</td><td>1-216-045-00 1-216-057-00</td><td>METAL GLAZE</td><td>680 5% 2.2K 5%</td><td>1/10W 1/10W</td><td></td></tr<>	I MMER>				R102 R103	1-216-045-00 1-216-057-00	METAL GLAZE	680 5% 2.2K 5%	1/10W 1/10W	
CT1 1-409-333-00	TRAP, CERAMIC	(6.0MHZ)			R104 R105	1-216-051-00 1-216-043-00	METAL GLAZE METAL GLAZE	1.2K 5% 560 5%	1/10W 1/10W	
I D >	ODE>				R106 R107	1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE		1/10W 1/10W	
D161 8-719-400-18	DIODE MA152WK				R108 R110	1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 470 5% 680 5% 180 5%	1/10W 1/10W	
<10	>	• .	, •		R112 R113	1-216-045-00 1-216-031-00	METAL GLAZE METAL GLAZE	680 5% 180 5%	1/10W 1/10W	
IC1 8-759-070-76	IC M52308SP				R114	1-216-049-00	METAL GLAZE	1K 5%	1/10W	
IC3 8-759-514-54	1C BA7046				R115 R116 R117	1-216-031-00 1-216-101-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 180 5% 150K 5% 100K 5% 680K 5%	1/10W 1/10W 1/10W	
<00	IL>				R118	1-216-117-00	METAL GLAZE	680K 5%	1/10W	
L101 1-408-414-00 L102 1-408-419-00 L103 1-408-419-00	INDUCTOR	27UH 68UH			R119 R120	1-216-240-00 1-216-075-00	METAL GLAZE METAL GLAZE	56K 5% 12K 5%	1/8W 1/10W	
L104 1-408-406-00	INDUCTOR INDUCTOR	68UH 5.6UH			R121 R122	1-216-053-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 5% 12K 5% 1.5K 5% 3.3K 5% 3.3K 5%	1/10W 1/10W 1/10W	
		12UH 0.56UH			R123	1-216-061-00 1-216-049-00	METAL GLAZE	3.3K 5%	1/10W	
L142 1-4 10-790-41 L161 1-4 08-419-00	INDUCTOR INDUCTOR	0.560H			1 1120	1 410 -045-00	MEINE GENEE	IN 3/6	1/ 10#	

(KV-B2512U)
(NV-D25 12U)

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R131 R132 R133 R134 R135	1-216-025-00 1-216-069-00 1-216-061-00 1-216-049-00 1-216-198-00	METAL GLAZE 100 METAL GLAZE 6.4 METAL GLAZE 3.7 METAL GLAZE 1K METAL GLAZE 1K	8K 5% 1 3K 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W		C511 C512 C513 C514 C519	1-106-375-12 1-126-103-11 1-163-209-00 1-163-105-00 1-164-161-11	MYLAR ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	33PF	10% 20% 5% 5% 10%	250V 16V 50V 50V 50V
R153 R159 R160 R161 R162	1-216-025-00 1-216-107-00 1-216-049-00 1-218-755-11 1-216-073-00	METAL GLAZE 1K	OK 5% 1 5% 1 OK 0.50% 1	1/10W 1/10W 1/10W 1/10W 1/10W		C522 C523 C531 C532 C538	1-163-141-00 1-164-493-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.047MF 0.22MF	5% 5% 10% 10% 10%	50V 50V 50V 16V 16V
R163 R164 R165 R166 R167	1-216-113-00 1-216-113-00 1-216-081-00 1-216-049-00 1-216-073-00	METAL GLAZE 471 METAL GLAZE 471 METAL GLAZE 1K METAL GLAZE 10	OK 5% 1 K 5% 1 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W		C541 C542 C543 C544 C546	1-163-037-11 1-164-161-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022MF 0.0022MF 0.0022MF	10% 10% 10% 10% 10%	50V 25V 50V 50V 25V
R168 R169 R175 R176 R177	1-216-113-00 1-216-049-00 1-216-083-00 1-216-075-00 1-216-095-00	METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 270 METAL GLAZE 120 METAL GLAZE 820	5% 1 K 5% 1 K 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W		C547 C549 C550 C552 C559	1-163-989-11 1-163-141-00 1-163-037-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.033MF 0.001MF 0.022MF	10% 10% 5% 10% 10%	50V 25V 50V 25V 25V
R178 R179 R181	1-216-059-00 1-216-057-00 1-216-037-00	METAL GLAZE 33	2K 5%	1/10W 1/10W 1/10W		C560 C562 C563 C564 C565	1-216-295-00 1-163-031-11 1-163-031-11	CERAMIC CHIP METAL GLAZE CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 5% 0.01MF 0.01MF	10% 1/10W	50V 50V 50V 50V
RV1		IABLE RESISTOR> RES, ADJ, CARBON	1 7K			C566 C567	1-163-031-11 1-163-009-11		0.01MF	10%	50V 50V
N / 1		NSFORMER>	7.14			C568 C569 C570	1-163-009-11 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.0022MF	10% 10% 10% 10%	50V 50V 16V
<u>T 4</u>	1-416-017-21	COIL				0310			U. JJMF	104	101
75 *****	1-416-018-21	COIL	******	*****	******	CD001	<fil< td=""><td></td><td>AMIC</td><td></td><td></td></fil<>		AMIC		
		M BOARD, COMPLET	E			05001		NECTOR>			
	<cap< td=""><td>'ACITOR></td><td></td><td></td><td></td><td>CN1406</td><td>*1-568-880-51 1-695-301-11</td><td>PIN, CONNECTO CONNECTOR, BO</td><td>R 5P ARD TO ROAR</td><td>AND</td><td></td></cap<>	'ACITOR>				CN1406	*1-568-880-51 1-695-301-11	PIN, CONNECTO CONNECTOR, BO	R 5P ARD TO ROAR	AND	
C001 C003 C007 C008 C010	1-163-117-00 1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP 100 CERAMIC CHIP 100	PF 57 PF 57 PF 57		50 V 50 V 50 V 50 V 50 V	CN1426 CN1432	*1-568-881-51 *1-568-882-51	PIN, CONNECTO PIN, CONNECTO PLUG, CONNECT	IR 6P IR 7P		
C011 C012 C014 C016 C018	1-163-117-00 1-163-117-00 1-163-117-00 1-163-141-00 1-164-505-11	CERAMIC CHIP 100 CERAMIC CHIP 100 CERAMIC CHIP 100 CERAMIC CHIP 0.0 CERAMIC CHIP 2.2	PF 52 PF 52 01MF 52	ž	50V 50V 50V 50V 16V	D001 D501 D503 D504 D510	8-719-800-76 8-719-401-31 8-719-400-18	DIODE MA3039H DIODE 1SS226 DIODE MA3047L DIODE MA152WK DIODE RD5.6M-	-TX		
C019 C032 C035 C036 C037	1-124-477-11 1-163-117-00 1-163-037-11 1-164-005-11 1-163-117-00	CERAMIC CHIP 1000 CERAMIC CHIP 0.00 CERAMIC CHIP 0.4 CERAMIC CHIP 1000	PF 5% 22MF 10 7MF	0%	16V 50V 25V 25V 50V	1	<1C> 8-759-072-93 *1-540-123-11 8-759-160-87		P; IC001		
C501 C502 C503 C504 C505	1-163-020-00 1-164-232-11 1-137-367-11 1-130-831-21 1-124-925-11	CERAMIC CHIP 0.00 CERAMIC CHIP 0.00 FILM 0.00 MYLAR 0.50 ELECT 2.20	1MF 10 033MF 5% 6MF 10	0%	50V 50V 50V 63V 50V	10501 10561 10562	8-759-513-48 8-752-347-92 8-759-998-98	IC TDA2595/V9 IC CXD2018Q			
C506 C507 C508 C509 C510	1-162-568-11 1-164-489-11 1-164-232-11 1-164-161-11 1-124-925-11	CERAMIC CHIP 0.3 CERAMIC CHIP 0.2 CERAMIC CHIP 0.0 CERAMIC CHIP 0.0 ELECT 2.2	2MF 10 1MF 10 022MF 10	0% 0% 0%	16V 16V 50V 50V 50V	L001	<01 1-408-421-00		100UH		



	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
L501 L561 L562	1-410-119-11 1-408-409-00 1-408-409-00	INDUCTOR 10	MH UH IIH			R507 R509	1-216-097-00 1-216-039-00	METAL GLAZE		5%	1/10W 1/10W	
L563	1-408-947-00	INDUCTOR 2.	ŽMMH			R510 R511 R512 R513	1-216-073-00 1-216-097-00 1-216-049-00 1-216-230-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100K 1K 22K		1/10W 1/10W 1/10W 1/8W	
Q002			2-G	_		R514	1-216-061-00	METAL GLAZE			1/10W	
0003 0501 0502 0503	8-729-901-01 8-729-901-81 8-729-901-01	TRANSISTOR 25C241 TRANSISTOR DTC144 TRANSISTOR 25C241 TRANSISTOR DTC144	EK 2K-T-146-1 EK	R		R515 R516 R517 R518 R519	1-216-049-00 1-216-039-00 1-216-039-00 1-216-075-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 390 390 12K 220	57 57 57	1/10W 1/10W 1/10W 1/10W 1/10W	
Q508 Q509 Q564 Q565 Q566	8-729-901-01 8-729-901-81 8-729-216-22 8-729-901-81 8-729-901-81	TRANSISTOR DTC144 TRANSISTOR 2SC241 TRANSISTOR 2SA116 TRANSISTOR 2SC241 TRANSISTOR DTC144	EK 2K-T-146- 2-G 2K-T-146- 2K-T-146-	R R R		R520 R521 R522 R523	1-216-053-00 1-216-085-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 1.5K 33K 4.7K 3.9K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q567	8-729-901-01	TRANSISTOR DTC144	EK			R524 R525	1-216-063-00 1-216-093-00				1/10W 1/10W	
JR002	<res< td=""><td>ISTOR> METAL GLAZE 0 METAL GLAZE 100 METAL GLAZE 100</td><td>51</td><td>1/10W</td><td></td><td>R526 R527 R528 R529</td><td>1-216-073-00 1-216-689-11 1-216-049-00 1-216-696-11</td><td>METAL GLAZE METAL GLAZE</td><td>68K 10K 39K 1K 75K</td><td>5% 5% 5% 5% 0.50%</td><td>1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR> METAL GLAZE 0 METAL GLAZE 100 METAL GLAZE 100	51	1/10W		R526 R527 R528 R529	1-216-073-00 1-216-689-11 1-216-049-00 1-216-696-11	METAL GLAZE METAL GLAZE	68K 10K 39K 1K 75K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W	
R001 R002 R003 R006	1-216-025-00 1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 1K METAL GLAZE 1K	3.6	1/10W 1/10W 1/10W 1/10W		R531 R532 R533 R535	1-216-085-00 1-249-427-11 1-216-105-00 1-216-057-00	METAL GLAZE METAL METAL GLAZE	33K 6.8K 220K 2.2K	57	1/10W 1/4W 1/10W 1/10W	
R007 R008	1-216-049-00	METAL GLAZE 101 METAL GLAZE 1K	5% 5%	1/10W 1/10W		R536	1-216-057-00	METAL GLAZE	2.2K 2.2K		1/10W	
R010 R011 R012	1-216-049-00 1-216-049-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W 1/10W		R538 R539 R540 R541	1-216-025-00 1-216-657-11 1-216-295-00 1-216-049-00	METAL CHIP METAL GLAZE METAL GLAZE	100 1.8K 0 1K	5% 0.50% 5% 5%	1/10W 1/10W	
R014 R015 R016	1-216-049-00 1-216-296-00 1-216-045-00	METAL GLAZE O	5%	1/10W 1/8W 1/10W		R542 R544	1-216-025-00 1-216-085-00	METAL GLAZE METAL GLAZE	100 33K		1/10W 1/10W	
R017 R018	1-216-049-00 1-216-041-00	METAL GLAZE 1K	5% 5%	1/10W 1/10W		R545 R546 R547	1-216-033-00 1-216-061-00 1-216-049-00		220 3.3K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R020 R021	1-216-049-00 1-216-065-00	METAL GLAZE 1K METAL GLAZE 4.	7K 5%	1/10W 1/10W		R551	1-216-049-00	METAL GLAZE	1 K		1/10W	
RO25 RO26 RO28	1-216-049-00 1-216-049-00 1-216-075-00	METAL GLAZE 1K	5% K 5%	1/10W 1/10W 1/10W		R552 R553 R559 R560	1-216-097-00 1-216-085-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 33K 1K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R030 R032	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE 1K	5%	1/10W 1/10W 1/10W			1-216-091-00 1-216-065-00		56K	5%	1/10W 1/10W	
R033 R034 R035	1-216-049-00 1-216-057-00 1-216-057-00	METAL GLAZE 2.1 METAL GLAZE 2.1	2K 5%	1/10W 1/10W		R566 R567 R568	1-216-073-00 1-216-085-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 33K 330K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R038 R049	1-216-073-00 1-216-049-00	METAL GLAZE 1K	5%	1/10W 1/10W		R570	1-216-049-00		1K	5%	1/10W	
RÓ50 RO51 RO52	1-216-073-00 1-216-081-00 1-216-073-00			1/10W 1/10W 1/10W		i 	<vaf< td=""><td>RIABLE RESISTO</td><td>R></td><td></td><td></td><td></td></vaf<>	RIABLE RESISTO	R>			
R053	1-216-065-00	METAL GLAZE 4.		1/10W			1-241-766-11				*****	******
R054 R055 R067	1-216-081-00 1-216-081-00 1-216-043-00	METAL GLAZE 22 METAL GLAZE 22 METAL GLAZE 56	K 5% O 5%	1/10W 1/10W 1/10W			*A-1638-030-A	C BOARD, COM	PLETE			
R068 R069	1-216-043-00 1-216-037-00	METAL GLAZE 56 METAL GLAZE 33	0 5%	1/10W 1/10W				*********	****			
R070 R501 R502	1-216-037-00 1-216-047-00	METAL GLAZE 33 METAL GLAZE 82	0 5 % 0 5 %	1/10W 1/10W 1/10W		C701	<cai 1-162-114-00</cai 	PACITOR>	0.0047	MF		2KV
R503	1-216-097-00 1-216-067-00	METAL GLAZE 5.		1/10W		C703 C704	1-123-946-00 1-130-202-00	ELECT FILM	4.7MF 0.022M	F	20% 5%	250V 400V
R504 R505 R506	1-216-063-00 1-216-075-00 1-216-049-00	METAL GLAZE 12		1/10W 1/10W 1/10W		C705 C708	1-162-116-00 1-163-197-00		680PF 470PF		10% 10%	2KV 50V

The components identified by shading and mark $\hat{\Delta}$ are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PA	RT NO.	DESCRIPTION				EMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
C710 1- C711 1- C712 1-	163-005-11 101-880-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CERAMIC CHIP CERAMIC CHIP	470PF 47PF 150PF	11	0% 50 0% 50 % 50 % 50 % 50	IV IV IV	R705 R706 R710 R711	1-216-398-11 1-216-398-11 1-215-899-11 1-202-820-11	METAL OXIDE METAL OXIDE SOLID	5.6 5.6 15K 1.5K	5% 5% 5% 20%	3W 3W 2W 1/2W	F F
	124-122-11		150PF 100MF	5 2	% 50 0% 50		R712 R713 R714 R715 R716	1-215-899-11 1-202-820-11 1-215-899-11 1-202-820-11 1-247-700-11	METAL OXIDE SOLID METAL OXIDE SOLID CARBON	15K 1.5K 15K 1.5K 100	5% 20% 5% 20% 5%	2W 1/2W 2W 1/2W 1/4W	F F F
auaaaa .		NECTOR>		D.C. M.CH.)			R717	1-249-405-11	CARBON	100	5% 5%	1/4W	F
CNO403*1-	564-511-11	PIN, CONNECTO PLUG, CONNECTO PIN, CONNECTO	OR 8P OR (5MM	PITCH)	6P		R718 R720 R722 R724	1-247-700-11 1-249-417-11 1-247-713-11 1-249-417-11	CARBON CARBON CARBON CARBON	100 1K 1K 1K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F F F
	<d10< td=""><td>DE></td><td></td><td></td><td></td><td></td><td>R725 R726</td><td>1-216-067-00 1-216-067-00</td><td>METAL GLAZE METAL GLAZE</td><td>5.6K 5.6K</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></d10<>	DE>					R725 R726	1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE	5.6K 5.6K	5% 5%	1/10W 1/10W	
D702 8- D703 8-	719-911-19 719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					R727 R728 R729	1-216-067-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 390 390	5% 5% 5%	1/10W 1/10W 1/10W	
	719-911-19	DIODE 1SS119					R730 R731	1-216-039-00 1-216-017-00	METAL GLAZE METAL GLAZE	390 47	5% 5%	1/10W 1/10W	
D707 8-	719-911-19	DIODE 1SS119 DIODE 1SS119					R732 R733	1-216-017-00 1-216-017-00	METAL GLAZE METAL GLAZE	47 47	5% 5%	1/10W 1/10W	
D709 8-	719-911-19 719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					R734	1-202-549-00	SOLID METAL CLAZE	100	20%	1/2W	
	-719-911-19 -719-908-03	DIODE GPOSD					R735 R738 R739	1-216-049-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W	
ט כווש	119 900 05	DIODE GIOOD					R740 R741	1-216-025-00 1-216-089-00	METAL GLAZE METAL GLAZE	100 100 47K	5% 5%	1/10W 1/10W	
	<jac< td=""><td>K></td><td></td><td></td><td></td><td></td><td>R742</td><td>1-216-295-00</td><td>METAL GLAZE</td><td>0</td><td></td><td>1/10W</td><td></td></jac<>	K>					R742	1-216-295-00	METAL GLAZE	0		1/10W	
J701 & 1-	526-990-13	SOCKET, PICTI	IRE TUBE				R743 R747	1-249-434-11 1-216-488-11	CARBON METAL OXIDE	27K 18K	5% 5% 5% 5%	1/4W 3W	F
	<c011< td=""><td>L></td><td></td><td></td><td></td><td></td><td>R749 R751</td><td>1-215-926-00 1-216-489-11</td><td>METAL OXIDE METAL OXIDE</td><td>33K 27K</td><td>5% 5%</td><td>3W 3W</td><td>F F</td></c011<>	L>					R749 R751	1-215-926-00 1-216-489-11	METAL OXIDE METAL OXIDE	33K 27K	5% 5%	3W 3W	F F
L703 1- L705 1-	-410-667-31 -408-609-41 -408-609-41 -408-609-41	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	22UH 33UH 33UH 33UH				R753 R755 R756 R757 R758	1-216-073-00 1-216-069-00 1-216-069-00 1-216-069-00 1-249-419-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	10K 6.8K 6.8K 6.8K 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R759</td><td>1-249-419-11</td><td>CARBON</td><td>1.5K 1.5K</td><td>5% 5%</td><td>1/4W</td><td></td></tra<>	NSISTOR>					R759	1-249-419-11	CARBON	1.5K 1.5K	5% 5%	1/4W	
	-729-906- 7 0 -729-906-70	TRANSISTOR BI	871				R760	1-249-419-11	CAKBUN	1.5K	5%	1/4W	
Q703 8-	-729-906-70	TRANSISTOR BI TRANSISTOR BI	7871					<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td><td></td></var<>	IABLE RESISTOR	>			
	729-906-70	TRANSISTOR BI	871				RV701 RV702	1-230-641-11 1-241-656-21	RES, ADJ, MET RES, ADJ, MET	AL GLA AL FIL	ZE 2.2 M 110M	M	
Q707 8-	-729-906-70 -729-200-17	TRANSISTOR BI	SA1091-0)					******				******
Q709 8-	-729-200-17 -729-200-17	TRANSISTOR 25	SA1091-0)	_		,	*A-1642-089-A	D BOARD, COMP				
	729-901-81	TRANSISTOR 25						4 200 001 11	**********	****			
9712 8- 9713 8-	-729-901-81 -729-901-81 -729-216-22 -729-255-12	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SC2412K- SA1162-0	-T-146-1 3				4-200-001-11 4-201-023-11 *4-368-683-11 *4-389-343-11	SPACER, INSUL SPRING, TRANS				
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td><cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cap<></td></res<>	ISTOR>						<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
	-216-296-00	METAL GLAZE	0		1/8₩		C601	1-130-202-00		0.022M		10%	400 V
R701 1-	-216-296-00 -202-848-00	METAL GLAZE SOLID	0 680K	10%	1/8W 1/2W		C605	1-164-246-61 1-124-910-11	ELECT	0.0022 47MF		20% 20%	400y 50 y
	·202-838-00 ·202-838-00	SOLID SOLID	100K 100K	20% 20%	1/2W 1/2W		C608 C611	1-124-903-11 1-102-002-00		1MF 680PF		20% 10%	50V 500V
R704 1-	-202-842-11	SOLID	220K	10%	1/2₩	;	C612	1-137-437-11	FILM	0.0056	MF	5%	507



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REF.NO. PART NO.	DESCRIPTION	-	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C613 1-129-722 C614 1-102-030 C615 1-126-943 C616 1-102-030 C617 1-162-116	-00 CERAMIC	330PF 10% 680PF 10%	630V 500V 25V 500V 2KV	C870 C871 C872 C873 C875	1-137-364-11 1-130-651-00 1-124-907-11 1-137-364-11 1-102-038-00 1-124-902-00	FILM	0.001MF 0.001MF 10MF 0.001MF 0.001MF	5% 2% 20% 5%	50V 100V 50V 50V 500V
C619 1-102-030 C620 1-164-299 C621 1-124-347 C622 1-128-320	-00 ELECT -11 ELECT	100MF 20% 2200MF 20%	2KV 500V 25V 160V 16V	C877 C878 C879 C1501 C1502	1-164-232-11 1-102-228-00 1-163-141-00 1-124-903-11	CERAMIC CHIP CERAMIC CERAMIC CHIP ELECT	470PF 0.001MF 1MF	20% 10% 10% 5% 20% 5%	50V 500V 500V 50V 50V 50V
C623 1-102-030 C624 1-126-800 C625 1-126-800 C627 1-137-365 C628 1-124-910	-00 CERAMIC -51 ELECT -51 ELECT -11 FILM -11 ELECT	330PF 10% 2200MF 20% 2200MF 20% 0.0015MF 5% 47MF 20%	500V 35V 35V 50V 50V	C1504 C1505 C1506 C1507	1-163-133-00 1-124-480-11 1-124-911-11 1-136-202-11 1-106-228-00	ELECT ELECT FILM MYLAR	470PF 470MF 220MF 0.33MF 0.22MF 470MF	20% 20% 5% 10% 20%	25V 50V 63V 100V 25V
C632 1-137-372 C633 1-163-078 C636 1-130-777		P 0.033MF 10% 0.1MF 5%	50V 25V 50V 25V 63V	!	1-124-480-11 1-124-767-00 1-124-907-11 1-124-006-11 1-164-004-11 1-164-004-11				50V 50V 25V 25V 25V
C801 1-137-116 C803 1-164-695	-11 CERAMIC CHI -00 MYLAR	1MF 5%	200V 50V 100V 50V		<co1< td=""><td>NECTOR></td><td></td><td></td><td>2)†</td></co1<>	NECTOR>			2)†
C806 1-124-907 C808 1-162-114 C809 1-124-808	-11 ELECT -00 CERAMIC -51 ELECT -11 CERAMIC CHI	10MF 20% 0.0047MF 10MF 20%	50V 2KV 200V 50V 500V	CN0009 CN0504 CN0509 CN0506	4*1-508-786-00 9 1-568-878-51 4*1-568-882-51 5*1-568-880-51 6*1-568-880-51	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR 3P OR 7P OR 5P OR 5P	TCH) 2P	
C813 1-110-364 C815 1-162-117	-11 MYLAR -00 CERAMIC -11 FLECT		200V 500V 16V 2KV 2KV	CN052 CN052 CN052 CN052	9*1-568-878-51 1*1-508-765-00 4*1-568-878-51 5*1-695-294-11 6*1-568-881-51	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR (5MM PI OR 3P OR (PC BOA OR 6P	RD) 6P	
C823 1-124-902 C824 1-137-368 C825 A1-162-116 C826 A1-136-89	-00 ELECT		50V 50V 2KV 630V 100V	! CN552	9*1-508-784-00 1*1-568-878-51 *1-580-798-11 <di(< td=""><td>PIN, CONNECT CONNECTOR PI</td><td>OR 3P</td><td>TCH) 1P</td><td></td></di(<>	PIN, CONNECT CONNECTOR PI	OR 3P	TCH) 1P	
C831 1-123-937 C832 1-124-910 C833 1-136-828	7-11 FILM 1-00 ELECT 1-11 BLECT 1-11 FILM 1-11 FILM	0.0033MF 10% 4.7MF 20% 47MF 20% 1.8MF 5% 0.62MF 5%	400V 160V 50V 200V 200V	D602 D606 D608 D610 D611	8-719-300-33 8-719-300-33 8-719-300-33 1-806-660-11 8-719-029-04	DIODE RU-3AN DIODE RU-3AN DIODE ESABS	1 1		
C835 1-124-48 C836 1-102-22 C837 1-129-70 C838 1-129-72 C839 1-123-95	8-00 CERAMIC 8-00 FILM 8-00 FILM	470MF 20% 470PF 10% 0.001MF 10% 0.082MF 10% 47MF 20%	25V 500V 400V 250V 250V	D612 D613 D614 D616 D619	8-719-510-09 8-719-920-68 8-719-920-68 8-719-110-31 8-719-400-18	DIODE DIOSCO DIODE ESAB92 DIODE ESAB92 DIODE RD12ES DIODE MA152V	2-02 2-02 5-B2		
C840 1-124-48 C841 1-102-22: C842 1-104-72: C846 1-123-02 C851 1-136-55	8-00 CERAMIC 2-91 FILM 1-21 ELECT	470MF 20% 470PF 10% 0.068MF 10% 33MF 0.0047MF 10%	25V 500V 250V 160V 400V	D620 D624 D801 D802 D804	8-719-911-19 8-719-312-40 8-719-018-82 8-719-300-33 8-719-400-18	DIODE 1SS119 DIODE R2K DIODE RGPO2- DIODE RU-3AI DIODE MA152V	-20EL-6394		
C852 1-164-29 C853 1-124-91 C854 ★1-162-11 C857 1-124-90 C861 1-130-77)-11 ELECT 5-91 CERAMIC 2-00 ELECT	47MF 20%	25V 50V 2KV 50V 63V	D808 D809 D812 D813 D814	8-719-109-88 8-719-110-03 8-719-908-03 8-719-908-03 8-719-979-85	DIODE RD5.61 DIODE RD7.51 DIODE GPO8D DIODE GPO8D DIODE EGP200	ES-B2		
C866 1-129-70 C868 1-137-37	B-00 MYŁAR 2-00 FILM 1-11 FILM 5-00 FILM	0.047MF 10% 0.001MF 10% 0.015MF 5% 0.1MF 5%	100V 400V 50V 50V	D815 D816 D818 D821	8-719-300-33 8-719-979-85 8-719-109-93 8-719-400-18		S S-B2		

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REF.NO	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO) <u>ř</u>			REM
D822 D824 D825 D826 D827	8-719-982-20 8-719-976-64 8-719-400-18 8-719-400-18 8-719-983-50	DIODE MTZJ-30B DIODE RGP02-17 DIODE MA152WK DIODE MA152WK DIODE MTZJ-T-72-2.2A DIODE 1SS119 DIODE MA152WK		Q805 Q806 Q807 Q812 Q813	8-729-216-22 8-729-019-71 8-729-119-80 8-729-901-81 8-729-140-96	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162 2SK1916 2SC2688 2SC2412 2SD774-	-53-F5 -LK K-T-14		
D828 D830 D831 D832 D833	8-719-911-19 8-719-400-18 8-719-400-18 8-719-400-18	DIODE 1SS119 DIODE MA152WK DIODE MA152WK DIODE MA152WK DIODE MA152WK		Q818 Q1501 Q1502 Q1503 Q1504	8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162 2SC2412 DTC144E 2SA1162	-G K-T-14 K -G	6-R	
D1504	8-719-930-14	DIODE HZS3.6NB1TD			<re< td=""><td>SISTOR></td><td></td><td></td><td></td><td></td></re<>	SISTOR>				
I C601 I C602	<1C> 8-759-073-29 8-759-908-15 6 8-749-923-44	IC TDA4605-3 IC TL431CLP IC SFH617G-1		JR001 JR002 JR003 JR004 JR005	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
IC801 IC802 IC803 IC150	8-759-987-16 8-759-987-16 8-759-081-31 8-759-506-46	IC SFH617G-1 IC LM393P IC LM393P IC LM393P IC MC78L12ACPRP IC TDA8179S L> FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR COIL (WITH CORE) COIL (WITH CORE) FERRITE BEAD INDUCTOR INDUCTOR 47UH INDUCTOR 47UH COIL, AIR CORE FERRITE BEAD INDUCTOR INDUCTOR 1MMH COIL, WITH CORE COIL, FERRITE (PMC) INDUCTOR 3.3UH	대한 것는 세인에 나라 , 남편합니다	JR006 JR500 JR501 JR502 JR503	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W	
1602	<01 1-410-307-21	L>		JR504 JR505 JR506	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W	
L603 L604 L605	1-410-396-41 1-410-396-41 1-459-442-00	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR COLL (WITH CORE)		JR508 JR509	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	
L610 L622 L623 L803	1-410-397-21 1-412-533-21 1-412-533-21 1-420-872-00	FERRITE BEAD INDUCTOR INDUCTOR 47UH INDUCTOR 47UH COIL, AIR CORE		JR510 JR511 R601 R602	1-216-296-00 1-216-296-00 1-216-360-11 1-216-065-00 1-215-901-00	METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	0 8.2 4.7K	5% 5% 5% 5%	1/10W 2W	F F
L804 L808 L809 L810	1-410-396-41 1-412-549-11 1-459-104-00 1-460-197-21 1-412-519-11	FERRITE BEAD INDUCTOR INDUCTOR 1MMH COIL, WITH CORE COIL, FERRITE (PMC)	ı	R604 R605 R606 R607	1-260-200-11 1-216-313-00 1-216-033-00 1-216-061-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	240K 8.2 220 3.3K	5% 5% 5% 5%	1/2W 1/10W 1/10W 1/10W	E
L812 L813 L817 L1501	1-412-519-11 1-412-519-11 1-460-196-11 1-412-531-31	INDUCTOR 3.3UH INDUCTOR 3.3UH INDUCTOR 3.3UH COIL, HORIZONTAL LINEARITY INDUCTOR 33UH		R609 R610 R611 R612	1-215-928-11 1-216-005-00 1-247-881-00 1-249-405-11 1-247-894-11	METAL UXIDE METAL GLAZE CARBON CARBON CARBON	68K 15 120K 100 430K	5% 5% 5% 5%	3W 1/1 0W 1/4 W 1/4 W 1/4 W	F
L1502 L1503		INDUCTOR 330H		R614 R615 R617	1-216-260-00 1-216-487-11 1-216-487-11 1-216-033-00 1-216-449-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL GLAZE METAL OXIDE	390K 12K 12K 220 56	5% 5% 5% 5%	1/1 OW	F F
PS603A	\$ 1-532-686-91 \$ 1-532-686-91	LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A		R621 R622 R623	1-216-045-00 1-216-659-11 1-216-041-00 1-216-073-00 1-216-449-11	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL OXIDE	680 2.2K 470 10K 56	5% 0.50% 5% 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 2W	F
9601	8-729-016-14	NSISTOR> TRANSISTOR BUZ91A-E3155	 	R627	1-216-635-11 1-249-398-11 1-215-464-00	METAL CHIP CARBON METAL	27	5%	1/1 OW 1/4 W 1/4 W	F
Q602 Q603 Q611 Q612	8-729-177-22 8-729-900-53 8-729-119-78	TRANSISTOR 2SB772-Q TRANSISTOR DTC114EK TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144TK	 	R630 R631	1-249-421-11 1-216-397-11	CARBON METAL OXIDE	4.7	1% 5% 5%	1/4 W 3 W	F
Q613 Q801 Q802 Q804	8-729-216-22 8-729-016-32 8-729-140-97	TRANSISTOR DIA144TK TRANSISTOR 2SA1162-G TRANSISTOR 2SC4927-01 TRANSISTOR 2SB734-34 TRANSISTOR 2SA1162-G	 	R634 R635 R636	1-249-415-11 1-215-477-00 1-216-073-00 1-216-452-11 1-216-113-00	CARBON METAL METAL GLAZE METAL OXIDE METAL GLAZE	10K	5% 1% 5% 5% 5%	1/4 W 1/4 W 1/1 OW 2W 1/1 OW	F

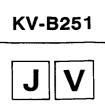


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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R638 R639 R640 R645 R646	1-216-073-00 1-216-089-00 1-207-905-00 1-215-464-00 1-216-097-00	METAL GLAZE METAL GLAZE WIREWOUND METAL METAL GLAZE	10K 47K 0.27 62K 100K	5% 5% 10% 1% 5%	1/10W 1/10W 2W 1/4W 1/10W	F	R894 R895 R897 R898 R1501	1-216-264-00 1-216-079-00 1-216-089-00 1-216-262-00 1-216-673-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	560K 5% 18K 5% 47K 5% 470K 5% 8.2K 0.	1/10W 1/10W 1/8W 50% 1/10W	
R647 R651 R801 R802 R804	1-216-059-00 1-216-069-00 1-216-069-00 1-216-295-00 1-217-778-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE FUSIBLE	2.7K 6.8K 6.8K 0 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F	R1502 R1503 R1504 R1505 R1506	1-216-665-11 1-216-065-00 1-216-081-00 1-216-081-00 1-216-057-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 0. 4.7K 5% 22K 5% 22K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R805 R806 R807 R808 R809	1-216-677-11 1-216-061-00 1-216-037-00 1-216-085-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 3.3K 330 33K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1509 R1510 R1511 R1512	1-216-684-11 1-216-091-00 1-249-382-11 1-215-887-00 1-216-371-00	METAL GLAZE CARBON METAL OXIDE METAL OXIDE	56K 5% 1.2 5% 150 5% 1.5 5%	50% 1/10W	F F F
R811 R812 R813 R814 R815	1-216-033-00 1-216-061-00 1-216-065-00 1-216-091-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 4.7K 56K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		!	1-216-049-00 1-216-065-00 <vaf< td=""><td></td><td>4.7K 5%</td><td>-,</td><td></td></vaf<>		4.7K 5%	-,	
R819 R820 R821 R822 R823	1-247-755-11 1-216-097-00 1-215-918-00 1-215-918-00 1-216-065-00	CARBON METAL GLAZE METAL OXIDE METAL OXIDE METAL GLAZE	1.8K 100K 1.5K 1.5K 4.7K	5% 5% 5% 5%	1/2W 1/10W 3W 3W 1/10W	F F			ANSFORMER>			
R824 R825 R826 R828 R829	1-216-675-11 1-216-345-11 1-216-166-00 1-216-121-00 1-249-429-11	METAL CHIP METAL OXIDE METAL GLAZE METAL GLAZE CARBON	10K 0.47 47 1M 10K	0.50% 5% 5% 5% 5%	1/10W 1W 1/8W 1/10W 1/4W	F	T801 Z	N 1-450-997-11 N 1-453-118-11 1-437-090-00	HDT	A331, PLII	MUNTUNTA	0UUA27
R830 R832 R833 R834 R835	1-216-687-11 1-216-089-00 1-216-105-00 1-216-109-00 1-216-057-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 47K 220K 330K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			*1-643-004-11	H1 BOARD ********* PACITOR>			
R836 R837 R838 R839 R841	1-216-242-00 1-216-695-11 1-216-091-00 1-216-055-00 1-249-397-11	METAL GLAZE	68K 68K 56K 1.8K 22	5%	1/8W 1/10W 1/10W 1/10W 1/10W	 	C083 C087	1-163-037-11	CERAMIC CHIP CERAMIC CHIP NNECTOR>	0.022MF 0.022MF	10% 10%	25V 25V
R842 R846 R847 R849 R851	1-215-890-11 1-216-671-11 1-216-699-11 1-215-908-00 1-247-743-11	METAL CHIP METAL CHIP		5% 0.50% 0.50% 5%	: 1/10W	F	CN100	8*1-564-516-11 <ja< td=""><td>CK></td><td></td><td></td><td></td></ja<>	CK>			
R852 R853 R854 R855 R858	1-249-389-11 1-249-443-11 1-249-443-11 1-202-818-00 1-249-425-11	CARBON CARBON CARBON SOLID	4.7 0.47 0.47 1K 4.7K	5% 5% 5% 10%	1/4W 1/4W 1/4W 1/2W 1/4W	F F	J81 J82	1-562-837-11 <c0< td=""><td>IL></td><td>CK, S 3P</td><td></td><td></td></c0<>	IL>	CK, S 3P		
R864 R865 R866 R867 R868	1-216-686-11 1-215-493-00 1-216-687-11 1-216-113-00	METAL CHIP METAL METAL CHIP METAL GLAZE	30K 1M 33K 470K 33K	0.50% 1% 0.50%	1/100 1/4W 1/100 1/100 1/4W	V	L081 L082	1-408-409-00 1-408-409-00 <re< td=""><td>INDUCTOR INDUCTOR SISTOR></td><td>10UH 10UH</td><td></td><td></td></re<>	INDUCTOR INDUCTOR SISTOR>	10UH 10UH		
R871 R872 R873 R876 R877	1-249-435-11 1-249-493-11 1-249-393-11 1-249-393-11 1-249-421-11 1-215-880-00	CARBON CARBON CARBON CARBON	56K 10 10 2.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 2W	F	JR021 R081 R082 R083 R084	1-216-073-00 1-216-065-00 1-216-057-00 1-216-202-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 10K 5 4.7K 5 2.2K 5 1.5K 5	7 1/10V 7 1/10V 7 1/8W	i P
R878 R884 R889 R893	1-215-883-11 1-216-693-11 1-216-089-00 1-215-878-00	METAL OXIDE METAL CHIP METAL GLAZE	33 56K 47K 33K	5%	2W 1/10 1/10 1W	F	R085	1-216-202-00) METAL GLAZE	1.5K 5	% 1/8W	

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REM/	ARK
<swi< td=""><td>TCH></td><td></td><td></td><td><d< td=""><td>IODE></td><td></td><td></td><td></td><td></td></d<></td></swi<>	TCH>			<d< td=""><td>IODE></td><td></td><td></td><td></td><td></td></d<>	IODE>				
S082 1-571-532-21 S083 1-571-532-21	SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL	******	D903 D904 D907 D908 D909	8-719-921-69 8-719-921-69 8-719-921-69	DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9.	1 1 1			
*1-642-997-11	H2 BOARD ********		D910 D911 D912	8-719-921-69	DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9.	1			
*4-201-076-01 *4-374-987-01 4-381-686-01			D913 D914	8-719-921-69 8-719-921-69	DIODE MTZJ-9.	1			
<com< td=""><td>NECTOR></td><td></td><td>D915 D916 D917 D924</td><td>8-719-921-69 8-719-921-69</td><td>DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9.</td><td>1 1</td><td></td><td></td><td></td></com<>	NECTOR>		D915 D916 D917 D924	8-719-921-69 8-719-921-69	DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9.	1 1			
CN1132*1-568-882-51	PIN, CONNECTOR 7P		D925	8-719-921-69	DIODE MTZJ-9.	1			
<dic D092 8-719-948-31</dic 	DIODE LD-201VR		D926 D927 D928	8-719-921-69	DIODE MTZJ-9. DIODE MTZJ-9. DIODE MTZJ-9.	1			
D093 8-719-948-31	DIODE LD-201VR DIODE LD-201VR		 	<jac< td=""><td>K></td><td></td><td></td><td></td><td></td></jac<>	K>				
<10	,		J903 J905	1-561-534-41 1-695-293-11	SOCKET, PIN 2 SOCKET 21P	1P			
IC091 8-741-101-75	IC SBX1610-11		 	<c01< td=""><td>L></td><td></td><td></td><td></td><td></td></c01<>	L>				
	J BOARD, COMPLETE	*********	L281 L282 L283	1-402-711-11	INDUCTOR, WID INDUCTOR, WID INDUCTOR, WID	EBAND			
<cai< td=""><td>ACITOR></td><td></td><td><tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td></tra<></td></cai<>	ACITOR>		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>					
C281 1-126-103-11 C293 1-101-003-00	ELECT 470MF 20% CERAMIC 0.0047MF	50V	Q281 Q282	8-729-901-81	TRANSISTOR 2S				
C294 1-101-003-00 C295 1-163-009-11 C296 1-163-009-11	CERAMIC CHIP 0.001MF 10%			<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
C911 1-163-017-00 C912 1-163-133-00	CERAMIC 0.01MF CERAMIC CHIP 0.0047MF 10% CERAMIC CHIP 0.0047MF 10% CERAMIC CHIP 470PF 5% CERAMIC CHIP 470PF 5%	50V	JR906 JR915 JR917	1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	
C914 1-163-121-00 C915 1-163-121-00 C916 1-163-017-00 C917 1-163-017-00 C922 1-124-477-11	CERAMIC CHIP 150PF 5% CERAMIC CHIP 150PF 5% CERAMIC CHIP 0.0047MF 10% CERAMIC CHIP 0.0047MF 20%	50V	JR919 JR920 JR921 JR924 JR926	1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/8W	
C923 1-164-346-11 C924 1-124-477-11 C925 1-124-477-11 C926 1-164-346-11 C927 1-124-477-11	CERAMIC CHIP 1MF ELECT 47MF 20% CERAMIC CHIP 1MF ELECT 47MF 20%	16V 16V	JR927 JR928 JR935 JR940 JR942	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	/8 W /8 W /8 W /8 W /8 W	
C928 1-124-477-11 C929 1-124-477-11 C930 1-124-477-11 C931 1-164-346-11 C932 1-164-346-11	ELECT 47MF 20% ELECT 47MF 20% ELECT 47MF 20% CERAMIC CHIP 1MF CERAMIC CHIP 1MF	16V	JR952 JR954 JR955 JR956 JR957	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	//8 W //10 W //10 W //10 W //10 W	
	NNECTOR> CONNECTOR, BOARD TO BOARD 50)P	R282 R283 R284 R287 R288	1-216-073-00 1-216-073-00 1-216-073-00 1-216-216-00 1-216-216-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 5.6K 5.6K	5% 5% 5% 5%	1/10 W 1/10 W 1/10 W 1/8W 1/8W	
1 016 bot 1	. Dow, Connector of		R289	1-216-063-00		3.9K		1/10 W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R291 R292 R907	1-216-029-00	CARBON CARBON METAL GLAZE	5.6K 470 470 150	5% 5% 5% 5% 5%	1/8W 1/4W 1/4W 1/10W				V BOARD, COMPLETE		
R911	1-216-029-00	METAL GLAZE	150 75 3.9K		1/10W		C01 C02	1-124-016-11	ACITOR> ELECT 22MF	20%	50V
R914 R919	1-216-063-00 1-216-063-00 1-216-063-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 3.9K 3.9K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C02 C03 C04 C05	1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.022MF	20% 10%	25V 25V 50V 25V
R922 R923	1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00 1-216-089-00	METAL GLAZE METAL GLAZE	75 10K 390 390 47K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W			1-163-141-00	ELECT 220MF ELECT 1MF CERAMIC CHIP 15PF CERAMIC CHIP 0.001MF CERAMIC CHIP 470PF	20% 20% 5% 5% 5%	16V 50V 50V 50V 50V
R927 R928	1-216-039-00 1-216-039-00 1-216-089-00 1-216-063-00 1-216-113-00	METAL GLAZE METAL GLAZE	390 390 47K 3.9K 470K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			1-163-127-00	CERAMIC CHIP 0.022MF CERAMIC CHIP 270PF CERAMIC CHIP 100PF CERAMIC CHIP 15PF CERAMIC CHIP 27PF	10% 5% 5% 5% 5%	25V 50V 50V 50V 50V
R931 R932 R933 R934 R935	1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 470K 10K 3.9K 75	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		C16 C17 C18 C19 C20	1-163-093-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 10PF CERAMIC CHIP 6PF CERAMIC CHIP 220PF	10% 10% 5% 0.25PF 5%	50V 25V 50V 50V 50V
R936 R937 R938 R939 R940	1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 470K 390 390 3.9K	5%	1/10W 1/10W 1/10W 1/8W 1/10W		C21 C22 C23 C24 C25	1-163-117-00 1-163-210-00	CERAMIC CHIP 0.068MF CERAMIC CHIP 100PF CERAMIC CHIP 0.0016MF CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF	5% 5%	25V 50V 50V 16V 16V
R941 R942 R943 R944 R945	1-216-113-00 1-216-188-00 1-216-089-00 1-216-188-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 390 47K 390 47K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/10W		C26 C28 C30 C32 C33	1-163-809-11 1-163-137-00 1-136-171-00 1-163-038-00 1-124-910-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 680PF FILM 0.33MF CERAMIC CHIP 0.1MF BLECT 47MF	10% 5% 5% 20%	25V 50V 50V 25V 50V
R947 R950 R951 R959 R960	1-216-029-00 1-216-063-00 1-216-063-00 1-216-071-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 3.9K 3.9K 8.2K 8.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C34 C35 C36 C37 C39	1-163-239-11 1-216-295-00	CERAMIC CHIP 47PF CERAMIC CHIP 33PF METAL GLAZE 0 5%	20% 5% 5% 1/10W 5%	50V 50V 50V
R965 R966 R967 R968 R969	1-216-029-00 1-216-029-00 1-216-029-00 1-216-063-00 1-216-063-00	METAL GLAZE	150 150 150 3.9K 3.9K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		C40 C53 C54		CERAMIC CHIP 330PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5 %	50V 25V 25V
R970 R971 R972 R973 R974	1-216-063-00 1-216-063-00 1-216-063-00 1-216-063-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 3.9K 3.9K 3.9K 3.9K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		CN1737 CN1742	7*1-564-511-11	NECTOR> PLUG, CONNECTOR 8P PLUG, CONNECTOR 8P		
R975 R976 R977	1-216-063-00 1-216-063-00 1-216-063-00	METAL GLAZE METAL GLAZE	3.9K 3.9K 3.9K	5% 5%	1/10W 1/10W 1/10W						

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
CT01	1-141-418-11			R10 R11 R12 R13 R15	1-216-057-00 1-216-057-00 1-216-057-00 1-216-065-00 1-216-061-00	METAL GLAZE METAL GLAZE	2.2K 2.2K 2.2K 4.7K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<010	DE>		R16	1-216-033-00	METAL GLAZE	220	5% 5%	1/10W	
D01 D03 D04 D09 D10	8-719-400-18 8-719-104-34 8-719-104-34 8-719-400-18 8-719-400-18	DIODE MA152WK DIODE 1S2836 DIODE 1S2836 DIODE MA152WK DIODE MA152WK		R17 R20 R21 R22	1-216-033-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 1K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
D11 D12	8-719-400-18 8-719-400-18	DIODE MA152WK DIODE MA152WK		R23 R24 R25 R26 R27	1-216-065-00 1-216-091-00 1-216-065-00 1-216-081-00 1-216-043-00		4.7K 56K 4.7K 22K 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	C			R28	1-216-043-00	METAL GLAZE	560	5%	1/10W	
1 CO1 1 CO2 1 CO3 1 CO4 1 CO5	8-759-037-64 8-759-035-39	IC SDA5248-2C1 IC SDA5231-2 IC MCM514256AP80 IC CXD1050A-15P		R29 R30 R31 R32	1-216-043-00 1-216-037-00 1-216-061-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 330 3.3K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
1000	0-139-901-10	IC LMJ9JF		R33 R34	1-216-017-00 1-216-081-00	METAL GLAZE	47 22K	5% 5%	1/10W 1/10W	
	<c01< td=""><td>L></td><td></td><td>R35 R36</td><td>1-216-081-00 1-216-057-00</td><td>METAL GLAZE</td><td>22K 2.2K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W</td><td></td></c01<>	L>		R35 R36	1-216-081-00 1-216-057-00	METAL GLAZE	22K 2.2K	5% 5% 5% 5%	1/10W 1/10W	
L01	1-408-411-00	INDUCTOR 15UH		R37	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
L02 L03 L04 L05	1-408-414-00 1-408-417-00 1-408-413-00 1-408-409-00	INDUCTOR 47UH INDUCTOR 22UH INDUCTOR 10UH		R38 R39 R40 R41	1-218-773-11 1-218-758-11 1-216-043-00 1-216-033-00 1-216-033-00	METAL CHIP METAL GLAZE METAL GLAZE	750K 180K 560 220 220	0.50% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td>R43</td><td>1-216-033-00</td><td></td><td>220</td><td></td><td>1/10₩</td><td></td></tra<>	NSISTOR>		R43	1-216-033-00		220		1/10₩	
901 903 904 906 907	8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-81	TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R		R44 R46 R47 R48	1-216-033-00 1-216-073-00 1-216-057-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 10K 2.2K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
908 909 910 911 912	8-729-216-22 8-729-901-81 8-729-901-81 8-729-901-81 8-729-901-00	TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SA1622-G TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR 2SC2412K-T-146-R TRANSISTOR DTC124EK		R49 R50 R54 R55 R56	1-216-071-00 1-216-071-00 1-216-073-00 1-216-069-00 1-216-667-11	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 8.2K 10K 6.8K 4.7K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
						STAL>				
		SISTOR>		X02	1-567-495-11	OSCILLATOR, O	RYSTAL			
JRO2 RO1	1-216-295-00 1-216-025-00	METAL GLAZE 0 5% 1/10W METAL GLAZE 100 5% 1/10W		*****	*******	****	*****	*****	*****	******
RO2 RO3 RO4	1-216-025-00 1-216-055-00 1-216-049-00	METAL GLAZE 100 5% 1/10W METAL GLAZE 100 5% 1/10W METAL GLAZE 100 5% 1/10W METAL GLAZE 1.8K 5% 1/10W METAL GLAZE 1K 5% 1/10W			***	CELLANEOUS				
RO5 RO6 RO7 RO8 RO9	1-216-041-00 1-216-029-00 1-216-041-00 1-216-071-00 1-216-091-00	METAL GLAZE 470 5% 1/10W METAL GLAZE 150 5% 1/10W METAL GLAZE 470 5% 1/10W METAL GLAZE 8.2K 5% 1/10W METAL GLAZE 56K 5% 1/10W			<u> </u>		KE (Y2 10MM	5FXA} ∮		

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Replace only with part number specified.

REF. NO. PART NO.

DESCRIPTION

REMARK

ል 1-690-296-11 CORD, POWER (WITH NOISE FILTER) (KY-B2511A, B2511B, B2511D, B2511K, B2513E) ል 1-590-762-11 CORD, POWER (WITH PLUG) (KY-B2512U)

V901 A 8-733-231-05 PICTURE TUBE (A59JWC61X)

ACCESSORIES AND PACKING MATERIALS

4-202-183-41 4-202-183-81 4-202-183-11 4-202-183-91 4-202-183-61	MANUAL, INSTRUCTION (KV-B2511A) MANUAL, INSTRUCTION (KV-B2511B) MANUAL, INSTRUCTION (KV-B2511D) MANUAL, INSTRUCTION (KV-B2511K) MANUAL, INSTRUCTION (KV-B2512U)
4-202-183-71 4-202-255-81 *4-039-171-01 *4-039-172-01 *4-039-173-01	MANUAL, INSTRUCTION (KV-B2513E) MANUAL, INSTRUCTION (KV-B2513E) INDIVIDUAL CARTON CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY)
*4-396-065-01	BAG, PROTECTION

REMOTE COMMANDER

1-693-176-11 REMOTE COMMANDER (RM-830) 9-903-466-01 POCKET COVER (FOR RM-830)